SMFI - 3

I-BOX 3 PROGRAM

JB   AX 3

April 5, 1961

1.   Programs becoming obsolete: None

2.   Used to provide a test of the Central Processor
     I-Box.

TABLE OF CONTENTS

1. PURPOSE

    The I-Box 3 Program provides the maintenance engineer with a test for the proper loading and storing of the index registers.

2. PROGRAM INTRODUCTION

  2.1.   This program has been designed for use after the I-Box 1 and I-Box 2 Programs have been run successfully.

  2.2.   The program operates under the control of the Sense Switch Interrogation Program (SSIP).

3. OPERATING PROCEDURES

  3.1.   The Sense Switch Interrogation

    Program must be in the machine.

  3.2.   Loading Procedures (PUNFUL Cards)

    3.2.1.   At the Maintenance Console:

        1)   Depress Master Reset

        2)   Depress Start Clock

        3)   Depress IPL

        4)   Disable Interrupt and Time Clock

        5)   Enable Maintenance Mode

    3.2.2.   Place binary deck in card reader.

    3.2.3.   Depress Start on card reader, the program will start itself.

  3.3.   Error Indications

    The program operates under Sense Switch Interrogation Program (SSIP) control, all error indication options of the SSIP Program apply to this program. Refer to the SSIP Program write-up.

  3.4.   Success Indications

    All success indication options of the SSIP Program apply to this program. Refer to the SSIP Program write-up.

  3.5.   Operation Options

    Refer to the SSIP Program write-up for all operation options.

4. PROGRAM PHILOSOPHY

    This program is designed to test I-Box instructions and associated hardware. The entire program is under SSIP control. Below are listed all of the routines that are a part of this program and a brief description of what each tests:

XCS	Tests Index Core Storage for reading and writing of ones, zeros, and one-zero patterns.
1222	Checks SV and SVA to all three memories and checks SVA to all classes of instructions (Internal, External, and Index Memories)
1224	Checks SC to all three memories.
1226	Checks LV from all three memories, LVI, and LVNI.
1228	Checks LC from all three memories and LCI.
1230	Checks LR from all three memories and LRI.

7030 DPS

Program   **I-Box 3A**

File No.   **JB AX3A**

MAINTENANCE TAPE CONTROL CARD

Location/s of Exit Branch/es

1.		3	3	3	0	3	0
2.							
3.							
4.							
5.							
6.							

Pre-Loading Manual Intervention Required ?   Yes _____   No **x**

Pre-Loading Procedure (If Any)

PRNID,SUENRAM SMF1-3A   JA AX 3A

```
            SLC,%8¤17777.0                                                          017777.00

            PUNFUL
            PRNS
            SEM,6,C,G
                        -START SMFI-3A MAKE DUMMY PASS TO
                        -SSIP FOR HOUSEKEEPING PURPOSES.
            XW,%8¤20000.0,BIT63+1.00-START,0,2         20000.00 20 270620.00 00    017777.00
START       B,$+1.0                                    20001.10 00                 020000.00
            BD,$+1.32                                   20002.04 00                 020000.40
            SIC,SENO+.32                                1311.40 80                  020001.00
            B,SSW                                       1301.10 00                  020001.40
XCS0        BD,$+1.0                                    20003.04 00                 020002.00
                  NOP,0.0                                    0.30 00                020002.40
            LX,$X1,PRED1            -ALL ZERO WORD      20167.02 10                 020003.00
            SX,$X1,0.               -SET ALL                0.03 10                 020003.40
            SV,$X1,1.0                                      1.03 30                 020004.00
            SX,$X1,2.0              -SPECIAL                2.03 10                 020004.40
            NOP,                                            0.30 00                 020005.00
            SX,$X1,5.0                                       5.03 10                020005.40
            SX,$X1,6.0                                       6.03 10                020006.00
                  SX,$X1,7.0                                 7.03 10                020006.40
            SX,$X1,8.0                                      10.03 10                020007.00
                  SX,$X1,9.0                                11.03 10                020007.40
            SX,$X1,10.0                                     12.03 10                020010.00
                  SX,$X1,11.0                               13.03 10                020010.40
            SX,$X1,12.0                                     14.03 10                020011.00
                  SX,$X1,13.0                               15.03 10                020011.40
            SX,$X1,14.0                                     16.03 10                020012.00
                  SX,$X1,15.0                               17.03 10                020012.40
            SX,$X1,16.0                                     20.03 10                020013.00
                  SX,$X1,17.0                               21.03 10                020013.40
            SX,$X1,18.0                                     22.03 10                020014.00
                  SX,$X1,19.0                               23.03 10                020014.40
            SX,$X1,20.0                                     24.03 10                020015.00
                  SX,$X1,21.0                               25.03 10                020015.40
            SX,$X1,22.0                                     26.03 10                020016.00
                  SX,$X1,23.0                               27.03 10                020016.40
            SX,$X1,24.0                                     30.03 10                020017.00
                  SX,$X1,25.0                               31.03 10                020017.40
            SX,$X1,26.0                                     32.03 10                020020.00
                  SX,$X1,27.0                               33.03 10                020020.40
            SX,$X1,28.0                                     34.03 10                020021.00
                  SX,$X1,29.0                               35.03 10                020021.40
            SX,$X1,30.0                                     36.03 10                020022.00
                  SX,$X1,31.0                               37.03 10                020022.40
            L%BU,64,8¤,PRED1+.32   -CLEAR ECC IN C + D REGS 20023.40 80 000000.20 50 020023.00
            LX,$X1,PRED3           -ALL ONES INTO MASK   20170.02 10                020024.00
            SX,$X1,12.0            -REGISTER                 14.03 10                020024.40
            LV,$X1,PRED4           -SET INTERRUPT        20171.02 30                020025.00
            SV,$X1,2.0             -BASE ADDRESS             2.03 30                020025.40
            BD,XCS1                -TO ACTUAL PROGRAM    20171.44 00                020026.00
INRT        SIC,MK                                       20106.00 80                020026.40
                  BD,MK1           -THE INTERRUPT TABLE  20136.44 00                020027.00
            SIC,IK                                       20107.00 80                020027.40
                  BD,IK1                                 20137.04 00                020030.00
            SIC,IJ                                       20107.40 80                020030.40
                  BD,IJ1                                 20137.44 00                020031.00
            SIC,EK                                       20110.00 80                020031.40
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            BD,EK1                                 20140.04 00              020032.00
      SIC,TS                                       20110.40 80              020032.40
            BD,TS1                                 20140.44 00              020033.00
      SIC,CPUS                                     20111.00 80              020033.40
            BD,CPUS1                               20141.04 00              020034.00
      SIC,EKJ                                      20111.40 80              020034.40
            BD,EKJ1                                20141.44 00              020035.00
      SIC,UNRJ                                     20112.00 80              020035.40
            BD,UNRJ1                               20142.04 00              020036.00
      SIC,CBJ                                      20112.40 80              020036.40
            BD,CBJ1                                20142.44 00              020037.00
      SIC,EPGK                                     20113.00 80              020037.40
            BD,EPGK1                               20143.04 00              020040.00
      SIC,UK                                       20113.40 80              020040.40
            BD,UK1                                 20143.44 00              020041.00
      SIC,EE                                       20114.00 80              020041.40
            BD,EE1                                 20144.04 00              020042.00
      SIC,EOP                                      20114.40 80              020042.40
            BD,EOP1                                20144.44 00              020043.00
      SIC,CS                                       20115.00 80              020043.40
            BD,CS1                                 20145.04 00              020044.00
      SIC,RSV                                      20115.40 80              020044.40
            BD,RSV1                                20145.44 00              020045.00
      SIC,OP                                       20116.00 80              020045.40
            BD,OP1                                 20146.04 00              020046.00
      SIC,AD                                       20116.40 80              020046.40
            BD,AD1                                 20146.44 00              020047.00
      SIC,USA                                      20117.00 80              020047.40
            BD,USA1                                20147.04 00              020050.00
      SIC,EXE                                      20117.40 80              020050.40
            BD,EXE1                                20147.44 00              020051.00
      SIC,DS                                       20120.00 80              020051.40
            BD,DS1                                 20150.04 00              020052.00
      SIC,DF                                       20120.40 80              020052.40
            BD,DF1                                 20150.44 00              020053.00
      SIC,IF                                       20121.00 80              020053.40
            BD,IF1                                 20151.04 00              020054.00
      SIC,LC                                       20121.40 80              020054.40
            BD,LC1                                 20151.44 00              020055.00
      SIC,PF                                       20122.00 80              020055.40
            BD,PF1                                 20152.04 00              020056.00
      SIC,ZD                                       20122.40 80              020056.40
            BD,ZD1                                 20152.44 00              020057.00
      SIC,IR                                       20123.00 80              020057.40
            BD,IR1                                 20153.04 00              020060.00
      SIC,LS                                       20123.40 80              020060.40
            BD,LS1                                 20153.44 00              020061.00
      SIC,PSH                                      20124.00 80              020061.40
            BD,PSH1                                20154.04 00              020062.00
      SIC,XPFP                                     20124.40 80              020062.40
            BD,XPFP1                               20154.44 00              020063.00
      SIC,XPO                                      20125.00 80              020063.40
            BD,XPO1                                20155.04 00              020064.00
      SIC,XPH                                      20125.40 80              020064.40
            BD,XPH1                                20155.44 00              020065.00
      SIC,XPL                                      20126.00 80              020065.40
            BD,XPL1                                20156.04 00              020066.00
      SIC,XPU                                      20126.40 80              020066.40
            BD,XPU                                 20126.44 00              020067.00
      SIC,XPFN                                     20127.00 80              020067.40
            BD,XPFN1                               20157.04 00              020070.00
      SIC,RU                                       20127.40 80              020070.40
            BD,RU1                                 20157.44 00              020071.00
      SIC,TF                                       20130.00 80              020071.40
            BD,TF1                                 20160.04 00              020072.00
      SIC,UF                                       20130.40 80              020072.40
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                    BD,UF1                                          20160.44 00              020073.00
        SIC,VF                                                      20131.00 80              020073.40
                    BD,VF1                                          20161.04 00              020074.00
        SIC,XF                                                      20131.40 80              020074.40
                    BD,XF1                                          20161.44 00              020075.00
        SIC,BTR                                                     20132.00 80              020075.40
                    BD,BTR1                                         20162.04 00              020076.00
        SIC,DTR                                                     20132.40 80              020076.40
                    BD,DTR1                                         20162.44 00              020077.00
        SIC,PGO                                                     20133.00 80              020077.40
                    BD,PG01                                         20163.04 00              020100.00
        SIC,PG1                                                     20133.40 80              020100.40
                    BD,PG11                                         20163.44 00              020101.00
        SIC,PG2                                                     20134.00 80              020101.40
                    BD,PG21                                         20164.04 00              020102.00
        SIC,PG3                                                     20134.40 80              020102.40
                    BD,PG31                                         20164.44 00              020103.00
        SIC,PG4                                                     20135.00 80              020103.40
                    BD,PG41                                         20165.04 00              020104.00
        SIC,PG5                                                     20135.40 80              020104.40
                    BD,PG51                                         20165.44 00              020105.00
        SIC,PG6                                                     20136.00 80              020105.40
                    BD,PG61                                         20166.04 00              020106.00
MK      BD,0                        -PLACE RESERVED                 0.04 00                  020106.40
IK      BD,0                        -FOR INSTRUCTION                0.04 00                  020107.00
IJ      BD,0                        -COUNTER TO BE                  0.04 00                  020107.40
EK      BD,0                        -STORED UPON                    0.04 00                  020110.00
TS      BD,0                        -INTERRUPTS                     0.04 00                  020110.40
CPUS    BD,0                                                        0.04 00                  020111.00
EKJ     BD,0                                                        0.04 00                  020111.40
UNRJ    BD,0                                                        0.04 00                  020112.00
CBJ     BD,0                                                        0.04 00                  020112.40
EPGK    BD,0                                                        0.04 00                  020113.00
UK      BD,0                                                        0.04 00                  020113.40
EE      BD,0                                                        0.04 00                  020114.00
EOP     BD,0                                                        0.04 00                  020114.40
CS      BD,0                                                        0.04 00                  020115.00
RSV     BD,0                                                        0.04 00                  020115.40
OP      BD,0                                                        0.04 00                  020116.00
AD      BD,0                                                        0.04 00                  020116.40
USA     BD,0                                                        0.04 00                  020117.00
EXE     BD,0                                                        0.04 00                  020117.40
DS      BD,0                                                        0.04 00                  020120.00
DF      BD,0                                                        0.04 00                  020120.40
IF      BD,0                                                        0.04 00                  020121.00
LC      BD,0                                                        0.04 00                  020121.40
PF      BD,0                                                        0.04 00                  020122.00
ZD      BD,0                                                        0.04 00                  020122.40
IR      BD,0                                                        0.04 00                  020123.00
LS      BD,0                                                        0.04 00                  020123.40
PSH     BD,0                                                        0.04 00                  020124.00
XPFP    BD,0                                                        0.04 00                  020124.40
XPO     BD,0                                                        0.04 00                  020125.00
XPH     BD,0                                                        0.04 00                  020125.40
XPL     BD,0                                                        0.04 00                  020126.00
XPU     BD,0                                                        0.04 00                  020126.40
XPFN    BD,0                                                        0.04 00                  020127.00
RU      BD,0                                                        0.04 00                  020127.40
TF      BD,0                                                        0.04 00                  020130.00
UF      BD,0                                                        0.04 00                  020130.40
VF      BD,0                                                        0.04 00                  020131.00
XF      BD,0                                                        0.04 00                  020131.40
BTR     BD,0                                                        0.04 00                  020132.00
DTR     BD,0                                                        0.04 00                  020132.40
PGO     BD,0                                                        0.04 00                  020133.00
PG1     BD,0                                                        0.04 00                  020133.40
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PG2      BD,0                                                                      0.04 00              020134.00
PG3      BD,0                                                                      0.04 00              020134.40
PG4      BD,0                                                                      0.04 00              020135.00
PG5      BD,0                                                                      0.04 00              020135.40
PG6      BD,0                                                                      0.04 00              020136.00
MK1      BD,$                    -AREA OF UNIQUE                                20136.44 00              020136.40
IK1      BD,$                    -INTERRUPT                                     20137.04 00              020137.00
IJ1      BD,$                    -PROGRAM                                       20137.44 00              020137.40
EK1      BD,$                    -HANG UPS                                      20140.04 00              020140.00
TS1      BD,$                                                                   20140.44 00              020140.40
CPUS1    BD,$                                                                   20141.04 00              020141.00
EKJ1     BD,$                                                                   20141.44 00              020141.40
UNRJ1    BD,$                                                                   20142.04 00              020142.00
CBJ1     BD,$                                                                   20142.44 00              020142.40
EPGK1    BD,$                                                                   20143.04 00              020143.00
UK1      BD,$                                                                   20143.44 00              020143.40
EE1      BD,$                                                                   20144.04 00              020144.00
EOP1     BD,$                                                                   20144.44 00              020144.40
CS1      BD,$                                                                   20145.04 00              020145.00
RSV1     BD,$                                                                   20145.44 00              020145.40
OP1      BD,$                                                                   20146.04 00              020146.00
AD1      BD,$                                                                   20146.44 00              020146.40
USA1     BD,$                                                                   20147.04 00              020147.00
EXE1     BD,$                                                                   20147.44 00              020147.40
DS1      BD,$                                                                   20150.04 00              020150.00
DF1      BD,$                                                                   20150.44 00              020150.40
IF1      BD,$                                                                   20151.04 00              020151.00
LC1      BD,$                                                                   20151.44 00              020151.40
PF1      BD,$                                                                   20152.04 00              020152.00
ZD1      BD,$                                                                   20152.44 00              020152.40
IR1      BD,$                                                                   20153.04 00              020153.00
LS1      BD,$                                                                   20153.44 00              020153.40
PSH1     BD,$                                                                   20154.04 00              020154.00
XPFP1    BD,$                                                                   20154.44 00              020154.40
XPO1     BD,$                                                                   20155.04 00              020155.00
XPH1     BD,$                                                                   20155.44 00              020155.40
XPL1     BD,$                                                                   20156.04 00              020156.00
XPU1     BD,$                                                                   20156.44 00              020156.40
XPFN1    BD,$                                                                   20157.04 00              020157.00
RU1      BD,$                                                                   20157.44 00              020157.40
TF1      BD,$                                                                   20160.04 00              020160.00
UF1      BD,$                                                                   20160.44 00              020160.40
VF1      BD,$                                                                   20161.04 00              020161.00
XF1      BD,$                                                                   20161.44 00              020161.40
BTR1     BD,$                                                                   20162.04 00              020162.00
DTR1     BD,0                                                                      0.04 00              020162.40
PG01     BD,$                                                                   20163.04 00              020163.00
PG11     BD,$                                                                   20163.44 00              020163.40
PG21     BD,$                                                                   20164.04 00              020164.00
PG31     BD,$                                                                   20164.44 00              020164.40
PG41     BD,$                                                                   20165.04 00              020165.00
PG51     BD,$                                                                   20165.44 00              020165.40
PG61     BD,$                                                                   20166.04 00              020166.00
         CNOP,0                                                                    0.30 00              020166.40
PRED1    %8¤DD%BU,64,8¤, 0 000 000 000 000 000 000 000 -ALL ZERO WORD  000000000000000000000000         020167.00
PRED3    %8¤DD%BU,64,8¤, 1 777 777 777 777 777 777 777 -ALL ONES WORD  177777777777777777777777         020170.00
PRED4    VF,INRT                                                                20026.40+                020171.00
                             -INDEX STORAGE TESTS

XCS1     BD,$+0.32                                                              20172.04 00              020171.40
                 NOP,0                                                             0.30 00              020172.00
         LX,$X0,XCSZ1                                                           21753.00 10              020172.40
                 LX,$X1,XCSZ1-INITIALIZE                                        21753.02 10              020173.00
         LX,$X2,XCSZ1                                                           21753.04 10              020173.40
                 LX,$X3,XCSZ1-BY SETTING                                        21753.06 10              020174.00
         LX,$X4,XCSZ1                                                           21753.10 10              020174.40
                 LX,$X5,XCSZ1-ALL ONES                                          21753.12 10              020175.00
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         LX,$X6,XCSZ1                                        21753.14 10        020175.40
                  LX,$X7,XCSZ1-INTO EVERY                    21753.16 10        020176.00
         LX,$X8,XCSZ1                                        21753.20 10        020176.40
                  LX,$X9,XCSZ1        -BIT POSITION          21753.22 10        020177.00
         LX,$X10,XCSZ1                                       21753.24 10        020177.40
                  LX,$X11,XCSZ1-IN THE                       21753.26 10        020200.00
         LX,$X12,XCSZ1                                       21753.30 10        020200.40
                  LX,$X13,XCSZ1-INDEX                        21753.32 10        020201.00
         LX,$X14,XCSZ1                                       21753.34 10        020201.40
                  LX,$X15,XCSZ1-REGISTERS                    21753.36 10        020202.00
XCS1A    NOP,0-START ONE BIT TEST ON X0                         0.30 00         020202.40
         KV,$X0,XCSZ3-WITH 25 ONES, BITS 0 TO 24            21755.00 90         020203.00
         SIC,SEN                                             1310.00 80         020203.40
                  BXL,SERS-ERR, PATTERN MUST BE EQUAL        1304.32 42         020204.00
         SIC,SEN                                             1310.00 80         020204.40
                  BXH,SERS-TO CONTINUE, ERR IF A BIT         1304.33 42         020205.00
         SIC,SEN                                             1310.00 80         020205.40
                  BZXEZ,SERS-PICKED UP OR LOST 0 TO 24       1304.32 C4         020206.00
         KC,$X0,XCSZ3-WITH 18 ONES, BITS 28 TO 45           21755.01 90         020206.40
         SIC,SEN                                             1310.00 80         020207.00
                  BXL,SERS-ERR, PATTERN MUST BE EQUAL        1304.32 42         020207.40
         SIC,SEN                                             1310.00 80         020210.00
                  BXH,SERS-TO CONTINUE, ERR IF A BIT         1304.33 42         020210.40
         SIC,SEN                                             1310.00 80         020211.00
                  BZXEZ,SERS-PICKED UP OR LOST 28 TO 45      1304.32 C4         020211.40
         SR,$X0,XCSZ5-REFILL INTO WORK AREA                 21756.01 70         020212.00
         SIC,SEN                                             1310.00 80         020212.40
                  BZXF,SERS-ERR IF FLAG NOT 1, BIT 25        1304.23 40         020213.00
         LC,$X0,XCSZ5-REFILL IN COUNT FIELD                 21756.00 50         020213.40
         KC,$X0,XCSZ3-WITH 18 ONES, ACTUALLY BITS 46 TO 63  21755.01 90         020214.00
         SIC,SEN                                             1310.00 80         020214.40
                  BXL,SERS-ERR, MUST BE EQUAL                1304.32 42         020215.00
         SIC,SEN                                             1310.00 80         020215.40
                  BXH,SERS-TO CONTINUE, ERR IF A BIT         1304.33 42         020216.00
         SIC,SEN                                             1310.00 80         020216.40
                  BZXEZ,SERS-PICKED UP OR LOST               1304.32 C4         020217.00
XCS1A1   LX,$X0,XCSZ7-INSTR WD WITH BITS 26+27 ONES         21757.00 10         020217.40
         V+,$X0,XCSZ8-PUT ADDR IN VAL FIELD                 21760.00 B0         020220.00
         SX,$X0,XCS1A2-PUT INSTR WD IN PROG                 20223.01 10         020220.40
         NOP,0                                                  0.30 00         020221.00
                  NOP,0-SPACE IN PROGRAM                        0.30 00         020221.40
         NOP,0                                                  0.30 00         020222.00
                  CNOP,0                                        0.30 00         020222.40
XCS1A2   SIC,SEN-SHOULD BECOME LV, 1 THEN LV, XCSZ8          1310.00 80         020223.00
         B,SERS-SHD BECOME NOP, -1                           1304.10 00         020223.40
         KV,$X0,XCSZ8-PROVE V OF X0 WAS LOADED CORRECTLY    21760.00 90         020224.00
         SIC,SEN                                             1310.00 80         020224.40
                  BZXE,SERS-ERR IF NOT EQUAL                 1304.32 C0         020225.00
         LX,$X0,XCSZ10-RESTORE PROGRAM TO                   21761.00 10         020225.40
         SX,$X0,XCS1A2-INITIAL CONDITION                    20223.01 10         020226.00
         LX,$X0,XCSZ1-PUT ALL ONES BACK IN X0               21753.00 10         020226.40
         NOP,0                                                  0.30 00         020227.00
                  NOP,0                                         0.30 00         020227.40
         B,$+1,0                                            20231.10 00         020230.00
         B,XCS1A-TO LOOP IN X0 ALL ONES TEST               20202.50 00         020230.40
         SIC,SEN0+.32                                        1311.40 80         020231.00
                  B,SSW-TEST FOR LOOPING SWITCH              1301.10 00         020231.40
XCS1B    NOP,0-START ONE BIT TEST ON X1                         0.30 00         020232.00
         KV,$X1,XCSZ3-WITH 25 ONES, BITS 0 TO 24            21755.02 90         020232.40
         SIC,SEN                                             1310.00 80         020233.00
                  BZXEZ,SERS-ERR IF NOT EQUAL                1304.32 C4         020233.40
         KC,$X1,XCSZ3-WITH 18 ONES, BITS 28 TO 45           21755.03 90         020234.00
         SIC,SEN                                             1310.00 80         020234.40
                  BZXE,SERS-ERR IF NOT EQUAL                 1304.32 C0         020235.00
         SR,$X1,XCSZ5-REFILL INTO WORK AREA                 21756.03 70         020235.40
         SIC,SEN                                             1310.00 80         020236.00
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          BZXF,SERS-ERR IF FLAG NOT 1, BIT 25              1304.23 40        020236.40
     LC,$X1,XCSZ5-REFILL IN COUNT FIELD                    21756.02 50       020237.00
     KC,$X1,XCSZ3-WITH 18 ONES, ACTUAL BITS 46 TO 63       21755.03 90       020237.40
     SIC,SEN                                               1310.00 80        020240.00
          BZXEZ,SERS-ERR IF NOT EQUAL                      1304.32 C4        020240.40
XCS1B1  LX,$X1,XCSZ7                                       21757.02 10       020241.00
          V+,$X1,XCSZ8-USE BITS 26, 27 AS OP CODE          21760.02 B0       020241.40
     SX,$X1,XCS1B2                                         20244.03 10       020242.00
               NOP,0-INSTR WD IN PROG.                     0.30 00           020242.40
     NOP,0                                                 0.30 00           020243.00
          CNOP,0                                           0.30 00           020243.40
XCS1B2  SIC,SEN                                            1310.00 80        020244.00
          B,SERS-BECOMES LV, XCSZ8 AND NOP                 1304.10 00        020244.40
     KV,$X0,XCSZ8                    -PROOF POSITIVE        21760.00 90       020245.00
     SIC,SEN                                               1310.00 80        020245.40
          BZXE,SERS-ERR IF NOT EQUAL                       1304.32 C0        020246.00
     LX,$X1,XCSZ10                                         21761.02 10       020246.40
               SX,$X1,XCS1B2-RESTORE PROGRAM               20244.03 10       020247.00
     LX,$X0,XCSZ1                    -RESTORE X0            21753.00 10       020247.40
     LX,$X1,XCSZ1                                          21753.02 10       020250.00
               NOP,0-RESTORE IX REG                        0.30 00           020250.40
     NOP,0                                                 0.30 00           020251.00
          B,$+1.0                                          20252.50 00       020251.40
     B,XCS1B-TO LOOP IN X1 ALL ONES TEST                   20232.10 00       020252.00
     SIC,SEN0+.32                                          1311.40 80        020252.40
               B,SSW-TEST FOR LOOPING SWITCH               1301.10 00        020253.00
XCS1C   NOP,0-START ONE BIT TEST ON X2                     0.30 00           020253.40
     KV,$X2,XCSZ3-WITH 25 ONES, BITS 0 TO 24               21755.04 90       020254.00
     SIC,SEN                                               1310.00 80        020254.40
          BZXEZ,SERS-ERR IF NOT EQUAL                      1304.32 C4        020255.00
     KC,$X2,XCSZ3-WITH 18 ONES, BITS 28 TO 45              21755.05 90       020255.40
     SIC,SEN                                               1310.00 80        020256.00
          BZXE,SERS-ERR IF NOT EQUAL                       1304.32 C0        020256.40
     SR,$X2,XCSZ5-REFILL INTO WORK AREA                    21756.05 70       020257.00
     SIC,SEN                                               1310.00 80        020257.40
          BZXF,SERS-ERR IF FLAG NOT 1, BIT 25              1304.23 40        020260.00
     LC,$X2,XCSZ5-REFILL IN COUNT FIELD                    21756.04 50       020260.40
     KC,$X2,XCSZ3-WITH 18 ONES, ACTUAL BITS 46 TO 63       21755.05 90       020261.00
     SIC,SEN                                               1310.00 80        020261.40
          BZXEZ,SERS-ERR IF NOT EQUAL                      1304.32 C4        020262.00
XCS1C1  LX,$X2,XCSZ7                                       21757.04 10       020262.40
          V+,$X2,XCSZ8-USE BITS 26, 27 AS OP CODE          21760.04 B0       020263.00
     SX,$X2,XCS1C2                                         20265.05 10       020263.40
               NOP,0-INSTR WD IN PROG.                     0.30 00           020264.00
     NOP,0                                                 0.30 00           020264.40
          CNOP,0                                                                           
XCS1C2  SIC,SEN                                            1310.00 80        020265.00
          B,SERS-BECOMES LV, XCSZ8 AND NOP                 1304.10 00        020265.40
     KV,$X0,XCSZ8                    -PROOF POSITIVE        21760.00 90       020266.00
     SIC,SEN                                               1310.00 80        020266.40
          BZXE,SERS-ERR IF NOT EQUAL                       1304.32 C0        020267.00
     LX,$X2,XCSZ10                                         21761.04 10       020267.40
               SX,$X2,XCS1C2-RESTORE PROGRAM               20265.05 10       020270.00
     LX,$X0,XCSZ1                    -RESTORE X0            21753.00 10       020270.40
     LX,$X2,XCSZ1                                          21753.04 10       020271.00
               NOP,0-RESTORE IX REG.                       0.30 00           020271.40
     NOP,0                                                 0.30 00           020272.00
          B,$+1.0                                          20273.50 00       020272.40
     B,XCS1C-TO LOOP IN X2 ALL ONES TEST                   20253.50 00       020273.00
     SIC,SEN0+.32                                          1311.40 80        020273.40
               B,SSW-TEST FOR LOOPING SWITCH               1301.10 00        020274.00
XCS1D   NOP,0-START ONE BIT TEST ON X3                     0.30 00           020274.40
     KV,$X3,XCSZ3-WITH 25 ONES, BITS 0 TO 24               21755.06 90       020275.00
     SIC,SEN                                               1310.00 80        020275.40
          BZXEZ,SERS-ERR IF NOT EQUAL                      1304.32 C4        020276.00
     KC,$X3,XCSZ3-WITH 18 ONES, BITS 28 TO 45              21755.07 90       020276.40
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                SIC,SEN                                             1310.00 80              020277.00
                        BZXE,SERS-ERR IF NOT EQUAL                 1304.32 C0              020277.40
                SR,$X3,XCSZ5-REFILL INTO WORK AREA                 21756.07 70             020300.00
                SIC,SEN                                             1310.00 80              020300.40
                        BZXF,SERS-ERR IF FLAG NOT 1, BIT 25        1304.23 40              020301.00
                LC,$X3,XCSZ5-REFILL IN COUNT FIELD                 21756.06 50             020301.40
                KC,$X3,XCSZ3-WITH 18 ONES, ACTUAL BITS 46 TO 63    21755.07 90             020302.00
                SIC,SEN                                             1310.00 80              020302.40
                        BZXEZ,SERS-ERR IF NOT EQUAL               1304.32 C4              020303.00
        XCS1D1  LX,$X3,XCSZ7                                        21757.06 10             020303.40
                        V+,$X3,XCSZ8-USE BITS 26, 27 AS OP CODE    21760.06 B0             020304.00
                SX,$X3,XCS1D2                                       20306.07 10             020304.40
                        NOP,0-INSTR WD IN PROG.                     0.30 00                020305.00
                NOP,0                                               0.30 00                020305.40
                    CNOP,0
        XCS1D2  SIC,SEN                                             1310.00 80              020306.00
                        B,SERS-BECOMES LV, XCSZ8 AND NOP           1304.10 00              020306.40
                KV,$X0,XCSZ8                    -PROOF POSITIVE     21760.00 90             020307.00
                SIC,SEN                                             1310.00 80              020307.40
                        BZXE,SERS-ERR IF NOT EQUAL                 1304.32 C0              020310.00
                LX,$X3,XCSZ10                                       21761.06 10             020310.40
                        SX,$X3,XCS1D2-RESTORE PROGRAM              20306.07 10             020311.00
                LX,$X0,XCSZ1                         -RESTORE X0    21753.00 10             020311.40
                LX,$X3,XCSZ1                                        21753.06 10             020312.00
                        NOP,0-RESTORE IX REG.                       0.30 00                020312.40
                NOP,0                                               0.30 00                020313.00
                    B,$+1.0                                        20314.50 00             020313.40
                B,XCS1D-TO LOOP IN X3 ALL ONES TEST                20274.50 00             020314.00
                SIC,SEN0+.32                                        1311.40 80              020314.40
                        B,SSW-TEST FOR LOOPING SWITCH              1301.10 00              020315.00
        XCS1E   NOP,0-START ONE BIT TEST ON X4                      0.30 00                020315.40
                KV,$X4,XCSZ3-WITH 25 ONES, BITS 0 TO 24            21755.10 90             020316.00
                SIC,SEN                                             1310.00 80              020316.40
                        BZXEZ,SERS-ERR IF NOT EQUAL               1304.32 C4              020317.00
                KC,$X4,XCSZ3-WITH 18 ONES, BITS 28 TO 45           21755.11 90             020317.40
                SIC,SEN                                             1310.00 80              020320.00
                        BZXE,SERS-ERR IF NOT EQUAL                 1304.32 C0              020320.40
                SR,$X4,XCSZ5-REFILL INTO WORK AREA                 21756.11 70             020321.00
                SIC,SEN                                             1310.00 80              020321.40
                        BZXF,SERS-ERR IF FLAG NOT 1, BIT 25        1304.23 40              020322.00
                LC,$X4,XCSZ5-REFILL IN COUNT FIELD                 21756.10 50             020322.40
                KC,$X4,XCSZ3-WITH 18 ONES, ACTUAL BITS 46 TO 63    21755.11 90             020323.00
                SIC,SEN                                             1310.00 80              020323.40
                        BZXEZ,SERS-ERR IF NOT EQUAL               1304.32 C4              020324.00
        XCS1E1  LX,$X4,XCSZ7                                        21757.10 10             020324.40
                        V+,$X4,XCSZ8-USE BITS 26, 27 AS OP CODE    21760.10 B0             020325.00
                SX,$X4,XCS1E2                                       20327.11 10             020325.40
                        NOP,0-INSTR WD IN PROG.                     0.30 00                020326.00
                NOP,0                                               0.30 00                020326.40
                    CNOP,0
        XCS1E2  SIC,SEN                                             1310.00 80              020327.00
                        B,SERS-BECOMES LV, XCSZ8 AND NOP           1304.10 00              020327.40
                KV,$X0,XCSZ8                    -PROOF POSITIVE     21760.00 90             020330.00
                SIC,SEN                                             1310.00 80              020330.40
                        BZXE,SERS-ERR IF NOT EQUAL                 1304.32 C0              020331.00
                LX,$X4,XCSZ10                                       21761.10 10             020331.40
                        SX,$X4,XCS1E2-RESTORE PROGRAM              20327.11 10             020332.00
                LX,$X0,XCSZ1                         -RESTORE X0    21753.00 10             020332.40
                LX,$X4,XCSZ1                                        21753.10 10             020333.00
                        NOP,0-RESTORE IX REG.                       0.30 00                020333.40
                NOP,0                                               0.30 00                020334.00
                    B,$+1.0                                        20335.50 00             020334.40
                B,XCS1E-TO LOOP IN X4 ALL ONES TEST                20315.50 00             020335.00
                SIC,SEN0+.32                                        1311.40 80              020335.40
                        B,SSW-TEST FOR LOOPING SWITCH              1301.10 00              020336.00
        XCS1F   NOP,0-START ONE BIT TEST ON X5                      0.30 00                020336.40
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                KV,$X5,XCSZ3-WITH 25 ONES, BITS 0 TO 24               21755.12 90        020337.00
                SIC,SEN                                               1310.00 80         020337.40
                        BZXEZ,SERS-ERR IF NOT EQUAL                   1304.32 C4         020340.00
                KC,$X5,XCSZ3-WITH 18 ONES, BITS 28 TO 45              21755.13 90        020340.40
                SIC,SEN                                               1310.00 80         020341.00
                        BZXE,SERS-ERR IF NOT EQUAL                    1304.32 C0         020341.40
                SR,$X5,XCSZ5-REFILL INTO WORK AREA                    21756.13 70        020342.00
                SIC,SEN                                               1310.00 80         020342.40
                        BZXF,SERS-ERR IF FLAG NOT 1, BIT 25           1304.23 40         020343.00
                LC,$X5,XCSZ5-REFILL IN COUNT FIELD                    21756.12 50        020343.40
                KC,$X5,XCSZ3-WITH 18 ONES, ACTUAL BITS 46 TO 63       21755.13 90        020344.00
                SIC,SEN                                               1310.00 80         020344.40
                        BZXEZ,SERS-ERR IF NOT EQUAL                   1304.32 C4         020345.00
XCS1F1  LX,$X5,XCSZ7                                                  21757.12 10        020345.40
                        V+,$X5,XCSZ8-USE BITS 26, 27 AS OP CODE       21760.12 B0        020346.00
                SX,$X5,XCS1F2                                         20350.13 10        020346.40
                        NOP,0-INSTR WD IN PROG.                       0.30 00            020347.00
                NOP,0                                                 0.30 00            020347.40
                        CNOP,0
XCS1F2  SIC,SEN                                                       1310.00 80         020350.00
                        B,SERS-BECOMES LV, XCSZ8 AND NOP              1304.10 00         020350.40
                KV,$X0,XCSZ8                     -PROOF POSITIVE      21760.00 90        020351.00
                SIC,SEN                                               1310.00 80         020351.40
                        BZXE,SERS-ERR IF NOT EQUAL                    1304.32 C0         020352.00
                LX,$X5,XCSZ10                                         21761.12 10        020352.40
                        SX,$X5,XCS1F2-RESTORE PROGRAM                 20350.13 10        020353.00
                LX,$X0,XCSZ1                     -RESTORE X0          21753.00 10        020353.40
                LX,$X5,XCSZ1                                          21753.12 10        020354.00
                        NOP,0-RESTORE IX REG.                        0.30 00            020354.40
                NOP,0                                                 0.30 00            020355.00
                        B,$+1.0                                      20356.50 00        020355.40
                B,XCS1F-TO LOOP IN X5 ALL ONES TEST                  20336.50 00        020356.00
                SIC,SEN0+.32                                         1311.40 80         020356.40
                        B,SSW-TEST FOR LOOPING SWITCH                1301.10 00         020357.00
XCS1G   NOP,0-START ONE BIT TEST ON X6                               0.30 00            020357.40
                KV,$X6,XCSZ3-WITH 25 ONES, BITS 0 TO 24               21755.14 90        020360.00
                SIC,SEN                                               1310.00 80         020360.40
                        BZXEZ,SERS-ERR IF NOT EQUAL                   1304.32 C4         020361.00
                KC,$X6,XCSZ3-WITH 18 ONES, BITS 28 TO 45              21755.15 90        020361.40
                SIC,SEN                                               1310.00 80         020362.00
                        BZXE,SERS-ERR IF NOT EQUAL                    1304.32 C0         020362.40
                SR,$X6,XCSZ5-REFILL INTO WORK AREA                    21756.15 70        020363.00
                SIC,SEN                                               1310.00 80         020363.40
                        BZXF,SERS-ERR IF FLAG NOT 1, BIT 25           1304.23 40         020364.00
                LC,$X6,XCSZ5-REFILL IN COUNT FIELD                    21756.14 50        020364.40
                KC,$X6,XCSZ3-WITH 18 ONES, ACTUAL BITS 46 TO 63       21755.15 90        020365.00
                SIC,SEN                                               1310.00 80         020365.40
                        BZXEZ,SERS-ERR IF NOT EQUAL                   1304.32 C4         020366.00
XCS1G1  LX,$X6,XCSZ7                                                  21757.14 10        020366.40
                        V+,$X6,XCSZ8-USE BITS 26, 27 AS OP CODE       21760.14 B0        020367.00
                SX,$X6,XCS1G2                                         20371.15 10        020367.40
                        NOP,0-INSTR WD IN PROG.                       0.30 00            020370.00
                NOP,0                                                 0.30 00            020370.40
                        CNOP,0
XCS1G2  SIC,SEN                                                       1310.00 80         020371.00
                        B,SERS-BECOMES LV,XCSZ8 AND NOP               1304.10 00         020371.40
                KV,$X0,XCSZ8                     -PROOF POSITIVE      21760.00 90        020372.00
                SIC,SEN                                               1310.00 80         020372.40
                        BZXE,SERS-ERR IF NOT EQUAL                    1304.32 C0         020373.00
                LX,$X6,XCSZ10                                         21761.14 10        020373.40
                        SX,$X6,XCS1G2-RESTORE PROGRAM                 20371.15 10        020374.00
                LX,$X0,XCSZ1                     -RESTORE X0          21753.00 10        020374.40
                LX,$X6,XCSZ1                                          21753.14 10        020375.00
                        NOP,0-RESTORE IX REG.                        0.30 00            020375.40
                NOP,0                                                 0.30 00            020376.00
                        B,$+1.0                                      20377.50 00        020376.40
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                    B,XCS1G-TO LOOP IN X6 ALL ONES TEST              20357.50 00          020377.00
                    SIC,SEN0+.32                                     1311.40 80           020377.40
                         B,SSW-TEST FOR LOOPING SWITCH              1301.10 00           020400.00
XCS1H    NOP,0-START ONE BIT TEST ON X7                              0.30 00             020400.40
         KV,$X7,XCSZ3-WITH 25 ONES,BITS 0 TO 24                      21755.16 90          020401.00
         SIC,SEN                                                     1310.00 80           020401.40
                   BZXEZ,SERS-ERR IF NOT EQUAL                       1304.32 C4           020402.00
         KC,$X7,XCSZ3-WITH 18 ONES, BITS 28 TO 45                    21755.17 90          020402.40
         SIC,SEN                                                     1310.00 80           020403.00
                   BZXE,SERS-ERR IF NOT EQUAL                        1304.32 C0           020403.40
         SR,$X7,XCSZ5-REFILL INTO WORK AREA                          21756.17 70          020404.00
         SIC,SEN                                                     1310.00 80           020404.40
                   ·BZXF,SERS-ERR IF FLAG NOT 1, BIT 25              1304.23 40           020405.00
         LC,$X7,XCSZ5-REFILL IN COUNT FIELD                          21755.16 50          020405.40
         KC,$X7,XCSZ3-WITH 18 ONES, ACTUAL BITS 46 TO 63             21755.17 90          020406.00
         SIC,SEN                                                     1310.00 80           020406.40
                   BZXEZ,SERS-ERR IF NOT EQUAL                       1304.32 C4           020407.00
XCS1H1   LX,$X7,XCSZ7                                                21757.16 10          020407.40
                   V+,$X7,XCSZ8-USE BITS 26, 27 AS OP CODE           21760.16 B0          020410.00
         SX,$X7,XCS1H2                                               20412.17 10          020410.40
                   NOP,0-INSTR WD IN PROG.                           0.30 00             020411.00
         NOP,0                                                       0.30 00             020411.40
              CNOP,0
XCS1H2   SIC,SEN                                                     1310.00 80           020412.00
                   B,SERS-BECOMES LV,XCSZ8 AND NOP                   1304.10 00           020412.40
         KV,$X0,XCSZ8                       -PROOF POSITIVE          21760.00 90          020413.00
         SIC,SEN                                                     1310.00 80           020413.40
                   BZXE,SERS-ERR IF NOT EQUAL                        1304.32 C0           020414.00
         LX,$X7,XCSZ10                                               21761.16 10          020414.40
                   SX,$X7,XCS1H2-RESTORE PROGRAM                     20412.17 10          020415.00
         LX,$X0,XCSZ1                       -RESTORE X0              21753.00 10          020415.40
         LX,$X7,XCSZ1                                                21753.16 10          020416.00
                   NOP,0-RESTORE IX REG.                             0.30 00             020416.40
         NOP,0                                                       0.30 00             020417.00
              B,$+1.0                                                20420.50 00          020417.40
         B,XCS1H-TO LOOP IN X7 ALL ONES TEST                         20400.50 00          020420.00
         SIC,SEN0+.32                                                1311.40 80           020420.40
                   B,SSW-TEST FOR LOOPING SWITCH                     1301.10 00           020421.00
XCS1J    NOP,0-START ONE BIT TEST ON X8                              0.30 00             020421.40
         KV,$X8,XCSZ3-WITH 25 ONES, BITS 0 TO 24                     21755.20 90          020422.00
         SIC,SEN                                                     1310.00 80           020422.40
                   BZXEZ,SERS-ERR IF NOT EQUAL                       1304.32 C4           020423.00
         KC,$X8,XCSZ3-WITH 18 ONES, BITS 28 TO 45                    21755.21 90          020423.40
         SIC,SEN                                                     1310.00 80           020424.00
                   BZXE,SERS-ERR IF NOT EQUAL                        1304.32 C0           020424.40
         SR,$X8,XCSZ5-REFILL INTO WORK AREA                          21756.21 70          020425.00
         SIC,SEN                                                     1310.00 80           020425.40
                   BZXF,SERS-ERR IF FLAG NOT 1, BIT 25               1304.23 40           020426.00
         LC,$X8,XCSZ5-REFILL IN COUNT FIELD                          21756.20 50          020426.40
         KC,$X8,XCSZ3-WITH 18 ONES, ACTUAL BITS 46 TO 63             21755.21 90          020427.00
         SIC,SEN                                                     1310.00 80           020427.40
                   BZXEZ,SERS-ERR IF NOT EQUAL                       1304.32 C4           020430.00
XCS1J1   LX,$X8,XCSZ7                                                21757.20 10          020430.40
                   V+,$X8,XCSZ8-USE BITS 26,27 AS OP CODE            21760.20 B0          020431.00
         SX,$X8,XCS1J2                                               20433.21 10          020431.40
                   NOP,0-INSTR WD IN PROG.                           0.30 00             020432.00
         NOP,0                                                       0.30 00             020432.40
              CNOP,0
XCS1J2   SIC,SEN                                                     1310.00 80           020433.00
                   B,SERS-BECOMES LV,XCSZ8 AND NOP                   1304.10 00           020433.40
         KV,$X0,XCSZ8                       -PROOF POSITIVE          21760.00 90          020434.00
         SIC,SEN                                                     1310.00 80           020434.40
                   BZXE,SERS-ERR IF NOT EQUAL                        1304.32 C0           020435.00
         LX,$X8,XCSZ10                                               21761.20 10          020435.40
                   SX,$X8,XCS1J2-RESTORE PROGRAM                     20433.21 10          020436.00
         LX,$X0,XCSZ1                       -RESTORE X0              21753.00 10          020436.40
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            LX,$X8,XCSZ1                                          21753.20 10        020437.00
                    NOP,0-RESTORE IX REG.                          0.30 00           020437.40
            NOP,0                                                  0.30 00           020440.00
                    B,$+1.0                                       20441.50 00        020440.40
            B,XCS1J-TO LOOP IN X8 ALL ONES TEST                   20421.50 00        020441.00
            SIC,SEN0+.32                                          1311.40 80         020441.40
                    B,SSW-TEST FOR LOOPING SWITCH                 1301.10 00         020442.00
XCS1K       NOP,0-START ONE BIT TEST ON X9                         0.30 00           020442.40
            KV,$X9,XCSZ3-WITH 25 ONES, BITS 0 TO 24               21755.22 90        020443.00
            SIC,SEN                                               1310.00 80         020443.40
                    BZXEZ,SERS-ERR IF NOT EQUAL                   1304.32 C4         020444.00
            KC,$X9,XCSZ3-WITH 18 ONES,BITS 28 TO 45        .      21755.23 90        020444.40
            SIC,SEN                                               1310.00 80         020445.00
                    BZXE,SERS-ERR IF NOT EQUAL                    1304.32 C0         020445.40
            SR,$X9,XCSZ5-REFILL INTO WORK AREA                    21756.23 70        020446.00
            SIC,SEN                                               1310.00 80         020446.40
                    BZXF,SERS-ERR IF FLAG NOT 1, BIT 25           1304.23 40         020447.00
            LC,$X9,XCSZ5-REFILL IN COUNT FIELD                    21756.22 50        020447.40
            KC,$X9,XCSZ3-WITH 18 ONES, ACTUAL BITS 46 TO 63       21755.23 90        020450.00
            SIC,SEN                                               1310.00 80         020450.40
                    BZXEZ,SERS-ERR IF NOT EQUAL                   1304.32 C4         020451.00
XCS1K1      LX,$X9,XCSZ7                                          21757.22 10        020451.40
                    V+,$X9,XCSZ8-USE BITS 26, 27 AS OP CODE       21760.22 B0        020452.00
            SX,$X9,XCS1K2                                         20454.23 10        020452.40
                    NOP,0-INSTR WD IN PROG.                        0.30 00           020453.00
            NOP,0                                                  0.30 00           020453.40
                CNOP,0
XCS1K2      SIC,SEN                                               1310.00 80         020454.00
                    B,SERS-BECOMES LV, XCSZ8 AND NOP              1304.10 00         020454.40
            KV,$X0,XCSZ8                -PROOF POSITIVE           21760.00 90        020455.00
            SIC,SEN                                               1310.00 80         020455.40
                    BZXE,SERS-ERR IF NOT EQUAL                    1304.32 C0         020456.00
            LX,$X9,XCSZ10                                         21761.22 10        020456.40
                    SX,$X9,XCS1K2-RESTORE PROGRAM                 20454.23 10        020457.00
            LX,$X0,XCSZ1                -RESTORE X0               21753.00 10        020457.40
            LX,$X9,XCSZ1                                          21753.22 10        020460.00
                    NOP,0-RESTORE IX REG.                          0.30 00           020460.40
            NOP,0                                                  0.30 00           020461.00
                    B,$+1.0                                       20462.50 00        020461.40
            B,XCS1K-TO LOOP IN X9 ALL ONES TEST                   20442.50 00        020462.00
            SIC,SEN0+.32                                          1311.40 80         020462.40
                    B,SSW-TEST FOR LOOPING SWITCH                 1301.10 00         020463.00
XCS1L       NOP,0-START ONE BIT TEST ON X10                       0.30 00           020463.40
            KV,$X10,XCSZ3-WITH 25 ONES, BITS 0 TO 24              21755.24 90        020464.00
            SIC,SEN                                               1310.00 80         020464.40
                    BZXEZ,SERS-ERR IF NOT EQUAL                   1304.32 C4         020465.00
            KC,$X10,XCSZ3-WITH 18 ONES, BITS 28 TO 45             21755.25 90        020465.40
            SIC,SEN                                               1310.00 80         020466.00
                    BZXE,SERS-ERR IF NOT EQUAL                    1304.32 C0         020466.40
            SR,$X10,XCSZ5-REFILL INTO WORK AREA                   21756.25 70        020467.00
            SIC,SEN                                               1310.00 80         020467.40
                    BZXF,SERS-ERR IF FLAG NOT 1, BIT 25           1304.23 40         020470.00
            LC,$X10,XCSZ5-REFILL IN COUNT FIELD                   21756.24 50        020470.40
            KC,$X10,XCSZ3-WITH 18 ONES, ACTUAL BITS 46 TO 63      21755.25 90        020471.00
            SIC,SEN                                               1310.00 80         020471.40
                    BZXEZ,SERS-ERR IF NOT EQUAL                   1304.32 C4         020472.00
XCS1L1      LX,$X10,XCSZ7                                         21757.24 10        020472.40
                    V+,$X10,XCSZ8-USE BITS 26, 27 AS OP CODE      21760.24 B0        020473.00
            SX,$X10,XCS1L2                                        20475.25 10        020473.40
                    NOP,0-INSTR WD IN PROG.                        0.30 00           020474.00
            NOP,0                                                  0.30 00           020474.40
                CNOP,0
XCS1L2      SIC,SEN                                               1310.00 80         020475.00
                    B,SERS-BECOMES LV, XCSZ8 AND NOP              1304.10 00         020475.40
            KV,$X0,XCSZ8                -PROOF POSITIVE           21760.00 90        020476.00
            SIC,SEN                                               1310.00 80         020476.40
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                        BZXE,SERS-ERR IF NOT EQUAL                              1304.32 CO               020477.00
           LX,$X10,XCSZ10                                                       21761.24 10              020477.40
                        SX,$X10,XCS1L2-RESTORE PROGRAM                          20475.25 10              020500.00
           LX,$X0,XCSZ1                            -RESTORE X0                  21753.00 10              020500.40
           LX,$X10,XCSZ1                                                        21753.24 10              020501.00
                        NOP,0-RESTORE IX REG.                                   0.30 00                  020501.40
           NOP,0                                                               0.30 00                  020502.00
                        B,$+1.0                                                20503.50 00              020502.40
           B,XCS1L-TO LOOP IN X10 ALL ONES TEST                                20463.50 00              020503.00
           SIC,SEN0+.32                                                        1311.40 80              020503.40 <
                        B,SSW-TEST FOR LOOPING SWITCH                          1301.10 00              020504.00
XCS1M      LX,$X11,XCSZ1                           -START ONE BIT TEST ON X11   21753.26 10              020504.40
           KV,$X11,XCSZ3-WITH 25 ONES, BITS 0 TO 24                            21755.26 90              020505.00
           SIC,SEN                                                             1310.00 80              020505.40
                        BZXEZ,SERS-ERR IF NOT EQUAL                            1304.32 C4              020506.00
           KC,$X11,XCSZ3-WITH 18 ONES, BITS 28 TO 45                           21755.27 90              020506.40
           SIC,SEN                                                             1310.00 80              020507.00
                        BZXE,SERS-ERR IF NOT EQUAL                             1304.32 CO              020507.40
           SR,$X11,XCSZ5-REFILL INTO WORK AREA                                 21756.27 70              020510.00
           SIC,SEN                                                             1310.00 80              020510.40
                        BZXF,SERS-ERR IF FLAG NOT 1, BIT 25                    1304.23 40              020511.00
           LC,$X11,XCSZ5-REFILL IN COUNT FIELD                                 21756.26 50              020511.40
           KC,$X11,XCSZ3-WITH 18 ONES, ACTUAL BITS 46 TO 63                    21755.27 90              020512.00
           SIC,SEN                                                             1310.00 80              020512.40
                        BZXEZ,SERS-ERR IF NOT EQUAL                            1304.32 C4              020513.00
XCS1M1     LX,$X11,XCSZ7                                                       21757.26 10              020513.40
                        V+,$X11,XCSZ8-USE BITS 26, 27 AS OP CODE               21760.26 B0              020514.00
           SX,$X11,XCS1M2                                                      20516.27 10              020514.40
                        NOP,0-INSTR WD IN PROG.                                0.30 00                  020515.00
           NOP,0                                                               0.30 00                  020515.40
                   CNOP,0
XCS1M2     SIC,SEN                                                             1310.00 80              020516.00
                        B,SERS-BECOMES LV,XCSZ8 AND NOP                        1304.10 00              020516.40
           KV,$X0,XCSZ8                            -PROOF POSITIVE             21760.00 90              020517.00
           SIC,SEN                                                             1310.00 80              020517.40
                        BZXE,SERS-ERR IF NOT EQUAL                            1304.32 CO              020520.00
           LX,$X11,XCSZ10                                                      21761.26 10              020520.40
                        SX,$X11,XCS1M2-RESTORE PROGRAM                         20516.27 10              020521.00
           LX,$X0,XCSZ1                            -RESTORE X0                 21753.00 10              020521.40
           LX,$X11,XCSZ1                                                       21753.26 10              020522.00
                        NOP,0-RESTORE IX REG.                                  0.30 00                  020522.40
           NOP,0                                                               0.30 00                  020523.00
                        B,$+1.0                                                20524.50 00              020523.40
           B,XCS1M-TO LOOP IN X11 ALL ONES TEST                                20504.50 00              020524.00
           SIC,SEN0+.32                                                        1311.40 80              020524.40
                        B,SSW-TEST FOR LOOPING SWITCH                          1301.10 00              020525.00
XCS1N      LX,$X12,XCSZ1                           -START ONE BIT TEST ON X12   21753.30 10              020525.40
           KV,$X12,XCSZ3-WITH 25 ONES, BITS 0 TO 24                            21755.30 90              020526.00
           SIC,SEN                                                             1310.00 80              020526.40
                        BZXEZ,SERS-ERR IF NOT EQUAL                            1304.32 C4              020527.00
           KC,$X12,XCSZ3-WITH 18 ONES,BITS 28 TO 45                            21755.31 90              020527.40
           SIC,SEN                                                             1310.00 80              020530.00
                        BZXE,SERS-ERR IF NOT EQUAL                             1304.32 CO              020530.40
           SR,$X12,XCSZ5-REFILL INTO WORK AREA                                 21756.31 70              020531.00
           SIC,SEN                                                             1310.00 80              020531.40
                        BZXF,SERS-ERR IF FLAG NOT 1, BIT 25                    1304.23 40              020532.00
           LC,$X12,XCSZ5-REFILL IN COUNT FIELD                                 21756.30 50              020532.40
           KC,$X12,XCSZ3-WITH 18 ONES, ACTUAL BITS 46 TO 63                    21755.31 90              020533.00
           SIC,SEN                                                             1310.00 80              020533.40
                        BZXEZ,SERS-ERR IF NOT EQUAL                            1304.32 C4              020534.00
XCS1N1     LX,$X12,XCSZ7                                                       21757.30 10              020534.40
                        V+,$X12,XCSZ8-USE BITS 26, 27 AS OP CODE               21760.30 B0              020535.00
           SX,$X12,XCS1N2                                                      20537.31 10              020535.40
                        NOP,0-INSTR WD IN PROG.                                0.30 00                  020536.00
           NOP,0                                                               0.30 00                  020536.40
                   CNOP,0
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XCS1N2  SIC,SEN                                                  1310.00 80        020537.00
            B,SERS-BECOMES LV, XCSZ8 AND NOP                     1304.10 00        020537.40
        KV,$X0,XCSZ8                   -PROOF POSITIVE           21760.00 90       020540.00
        SIC,SEN                                                  1310.00 80        020540.40
            BZXE,SERS-ERR IF NOT EQUAL                           1304.32 CO        020541.00
        LX,$X12,XCSZ10                                           21761.30 10       020541.40
            SX,$X12,XCS1N2-RESTORE PROGRAM                       20537.31 10       020542.00
        LX,$X0,XCSZ1                   -RESTORE X0               21753.00 10       020542.40
        LX,$X12,XCSZ1                                            21753.30 10       020543.00
            NOP,0-RESTORE IX REG.                                0.30 00           020543.40
        NOP,0                                                    0.30 00           020544.00
            B,$+1.0                                              20545.50 00       020544.40
        B,XCS1N-TO LOOP IN X12 ALL ONES TEST                     20525.50 00       020545.00
        SIC,SEN0+.32                                             1311.40 80        020545.40
            B,SSW-TEST FOR LOOPING SWITCH                        1301.10 00        020546.00
XCS1P   LX,$X13,XCSZ1                 -START ONE BIT TEST ON X13 21753.32 10       020546.40
        KV,$X13,XCSZ3-WITH 25 ONES, BITS 0 TO 24                 21755.32 90       020547.00
        SIC,SEN                                                  1310.00 80        020547.40
            BZXEZ,SERS-ERR IF NOT EQUAL                          1304.32 C4        020550.00
        KC,$X13,XCSZ3-WITH 18 ONES, BITS 28 TO 45                21755.33 90       020550.40
        SIC,SEN                                                  1310.00 80        020551.00
            BZXE,SERS-ERR IF NOT EQUAL                           1304.32 CO        020551.40
        SR,$X13,XCSZ5-REFILL INTO WORK AREA                      21756.33 70       020552.00
        SIC,SEN                                                  1310.00 80        020552.40
            BZXF,SERS-ERR IF FLAG NOT 1, BIT 25                  1304.23 40        020553.00
        LC,$X13,XCSZ5-REFILL IN COUNT FIELD                      21756.32 50       020553.40
        KC,$X13,XCSZ3-WITH 18 ONES, ACTUAL BITS 46 TO 63         21755.33 90       020554.00
        SIC,SEN                                                  1310.00 80        020554.40
            BZXEZ,SERS-ERR IF NOT EQUAL                          1304.32 C4        020555.00
XCS1P1  LX,$X13,XCSZ7                                            21757.32 10       020555.40
            V+,$X13,XCSZ8-USE BITS 26, 27 AS OP CODE             21760.32 BO       020556.00
        SX,$X13,XCS1P2                                           20560.33 10       020556.40
            NOP,0-INSTR WD IN PROG.                              0.30 00           020557.00
        NOP,0                                                    0.30 00           020557.40
            CNOP,0
XCS1P2  SIC,SEN                                                  1310.00 80        020560.00
            B,SERS-BECOMES LV,XCSZ8 AND NOP                      1304.10 00        020560.40
        KV,$X0,XCSZ8                   -PROOF POSITIVE           21760.00 90       020561.00
        SIC,SEN                                                  1310.00 80        020561.40
            BZXE,SERS-ERR IF NOT EQUAL                           1304.32 CO        020562.00
        LX,$X13,XCSZ10                                           21761.32 10       020562.40
            SX,$X13,XCS1P2-RESTORE PROGRAM                       20560.33 10       020563.00
        LX,$X0,XCSZ1                   -RESTORE X0               21753.00 10       020563.40
        LX,$X13,XCSZ1                                            21753.32 10       020564.00
            NOP,0-RESTORE IX REG.                                0.30 00           020564.40
        NOP,0                                                    0.30 00           020565.00
            B,$+1.0                                              20566.50 00       020565.40
        B,XCS1P-TO LOOP IN X13 ALL ONES TEST                     20546.50 00       020566.00
        SIC,SEN0+.32                                             1311.40 80        020566.40
            B,SSW-TEST FOR LOOPING SWITCH                        1301.10 00        020567.00
XCS1Q   NOP,0-START ONE BIT TEST ON X14                          0.30 00           020567.40
        KV,$X14,XCSZ3-WITH 25 ONES, BITS 0 TO 24                 21755.34 90       020570.00
        SIC,SEN                                                  1310.00 80        020570.40
            BZXEZ,SERS-ERR IF NOT EQUAL                          1304.32 C4        020571.00
        KC,$X14,XCSZ3-WITH 18 ONES, BITS 28 TO 45                21755.35 90       020571.40
        SIC,SEN                                                  1310.00 80        020572.00
            BZXE,SERS-ERR IF NOT EQUAL                           1304.32 CO        020572.40
        SR,$X14,XCSZ5-REFILL INTO WORK AREA                      21756.35 70       020573.00
        SIC,SEN                                                  1310.00 80        020573.40
            BZXF,SERS-ERR IF FLAG NOT 1, BIT 25                  1304.23 40        020574.00
        LC,$X14,XCSZ5-REFILL IN COUNT FIELD                      21756.34 50       020574.40
        KC,$X14,XCSZ3-WITH 18 ONES, ACTUAL BITS 46 TO 63         21755.35 90       020575.00
        SIC,SEN                                                  1310.00 80        020575.40
            BZXEZ,SERS-ERR IF NOT EQUAL                          1304.32 C4        020576.00
XCS1Q1  LX,$X14,XCSZ7                                            21757.34 10       020576.40
            V+,$X14,XCSZ8-USE BITS 26, 27 AS OP CODE             21760.34 BO       020577.00
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          SX,$X14,XCS1Q2                                         20601.35 10        020577.40
                   NOP,0-INSTR WD IN PROG.                       0.30 00            020600.00
          NOP,0                                                  0.30 00            020600.40
                   CNOP,0
XCS1Q2    SIC,SEN                                                1310.00 80         020601.00
                   B,SERS              -BECOME LV, XCSZ8 + NOP   1304.10 00         020601.40
          KV,$X0,XCSZ8                 -PROOF POSITIVE           21760.00 90        020602.00
          SIC,SEN                                                1310.00 80         020602.40
                   BZXE,SERS-ERR IF NOT EQUAL                    1304.32 C0         020603.00
          LX,$X14,XCSZ10                                         21761.34 10        020603.40
                   SX,$X14,XCS1Q2-RESTORE PROGRAM               20601.35 10        020604.00
          LX,$X0,XCSZ1                 -RESTORE X0               21753.00 10        020604.40
          LX,$X14,XCSZ1                                          21753.34 10        020605.00
                   NOP,0-RESTORE IX REG.                         0.30 00            020605.40
          NOP,0                                                  0.30 00            020606.00
                   B,$+1.0                                       20607.50 00        020606.40
          B,XCS1Q-TO LOOP IN X14 ALL ONES TEST                  20567.50 00        020607.00
          SIC,SEN0+.32                                           1311.40 80         020607.40
                   B,SSW-TEST FOR LOOPING SWITCH                 1301.10 00         020610.00
XCS1R     NOP,0-START ONE BIT TEST FOR X15                       0.30 00            020610.40
          KV,$X15,XCSZ3-WITH 25 ONES, BITS 0 TO 24               21755.36 90        020611.00
          SIC,SEN                                                1310.00 80         020611.40
                   BZXEZ,SERS-ERR IF NOT EQUAL                   1304.32 C4         020612.00
          KC,$X15,XCSZ3-WITH 18 ONES, BITS 28 TO 45              21755.37 90        020612.40
          SIC,SEN                                                1310.00 80         020613.00
                   BZXE,SERS-ERR IF NOT EQUAL                    1304.32 C0         020613.40
          SR,$X15,XCSZ5-REFILL INTO WORK AREA                    21756.37 70        020614.00
          SIC,SEN                                                1310.00 80         020614.40
                   BZXF,SERS-ERR IF FLAG NOT 1, BIT 25           1304.23 40         020615.00
          LC,$X15,XCSZ5-REFILL IN COUNT FIELD                    21756.36 50        020615.40
          KC,$X15,XCSZ3-WITH 18 ONES, ACTUAL BITS 46 TO 63       21755.37 90        020616.00
          SIC,SEN                                                1310.00 80         020616.40
                   BZXEZ,SERS-ERR IF NOT EQUAL                   1304.32 C4         020617.00
XCS1R1    LX,$X15,XCSZ7                                          21757.36 10        020617.40
                   V+,$X15,XCSZ8-USE BITS 26, 27 AS OP CODE      21760.36 B0        020620.00
          SX,$X15,XCS1R2                                         20622.37 10        020620.40
                   NOP,0-INSTR WD IN PROG.                       0.30 00            020621.00
          NOP,0                                                  0.30 00            020621.40
                   CNOP,0
XCS1R2    SIC,SEN                                                1310.00 80         020622.00
                   B,SERS-BECOMES LV, XCSZ8 AND NOP              1304.10 00         020622.40
          KV,$X0,XCSZ8                 -PROOF POSITIVE           21760.00 90        020623.00
          SIC,SEN                                                1310.00 80         020623.40
                   BZXE,SERS-ERR IF NOT EQUAL                    1304.32 C0         020624.00
          LX,$X15,XCSZ10                                         21761.36 10        020624.40
                   SX,$X14,XCS1R2-RESTORE PROGRAM               20622.35 10        020625.00
          LX,$X0,XCSZ1                 -RESTORE X0               21753.00 10        020625.40
          LX,$X15,XCSZ1                                          21753.36 10        020626.00
                   NOP,0-RESTORE IX REG                          0.30 00            020626.40
          NOP,0                                                  0.30 00            020627.00
                   B,$+1.0                                       20630.50 00        020627.40
          B,XCS1R-TO LOOP IN X15 ALL ONES TEST                  20610.50 00        020630.00
          SIC,SEN0+.32                                           1311.40 80         020630.40
                   B,SSW-TEST FOR LOOPING SWITCH                 1301.10 00         020631.00
          B,$+1.0                                                20632.50 00        020631.40
                   B,XCS1-TO LOOP IN ALL REGS ONES TEST          20171.50 00        020632.00
          SIC,SEN0+.32                                           1311.40 80         020632.40
                   B,SSW                                         1301.10 00         020633.00
          NOP,0.                                                 0.30 00            020633.40
                   NOP,0.                                        0.30 00            020634.00
XCS2      LX,$X0,XCSZ2                                           21754.00 10        020634.40
                   LX,$X1,XCSZ2-INITIALIZE                       21754.02 10        020635.00
          LX,$X2,XCSZ2                                           21754.04 10        020635.40
                   LX,$X3,XCSZ2-BY SETTING                       21754.06 10        020636.00
          LX,$X4,XCSZ2                                           21754.10 10        020636.40
                   LX,$X5,XCSZ2-ALL ZEROS                        21754.12 10        020637.00
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Instruction		
LX,$X6,XCSZ2	21754.14 10	020637.40
LX,$X7,XCSZ2-INTO EVERY	21754.16 10	020640.00
LX,$X8,XCSZ2	21754.20 10	020640.40
LX,$X9,XCSZ2-BIT POSITION	21754.22 10	020641.00
LX,$X10,XCSZ2	21754.24 10	020641.40
LX,$X11,XCSZ2-IN THE	21754.26 10	020642.00
LX,$X12,XCSZ2	21754.30 10	020642.40
LX,$X13,XCSZ2-INDEX	21754.32 10	020643.00
LX,$X14,XCSZ2	21754.34 10	020643.40
LX,$X15,XCSZ2-REGISTERS	21754.36 10	020644.00
XCS2A KV,$X0,XCSZ4-WITH ZEROS TO TEST X0	21755.40 90	020644.40
SIC,SEN	1310.00 80	020645.00
BZXEZ,SERS-ERR IF NOT EQUAL	1304.32 C4	020645.40
KC,$X0,XCSZ4-WITH ZEROS	21755.41 90	020646.00
SIC,SEN	1310.00 80	020646.40
BZXE,SERS-ERR IF NOT EQUAL	1304.32 C0	020647.00
SR,$X0,XCSZ5-REFILL INTO WORK AREA	21756.01 70	020647.40
SIC,SEN	1310.00 80	020650.00
BXF,SERS-ERR IF XF IS ONE	1304.23 42	020650.40
LC,$X0,XCSZ5-REFILL IN COUNT FIELD	21756.00 50	020651.00
KC,$X0,XCSZ4-WITH ZEROS	21755.41 90	020651.40
SIC,SEN	1310.00 80	020652.00
BZXE,SERS-ERR IF NOT EQUAL	1304.32 C0	020652.40
LX,$X0,XCSZ2-RESTORE REG. TO ALL ZEROS	21754.00 10	020653.00
NOP,0	0.30 00	020653.40
NOP,0	0.30 00	020654.00
B,$+1.0	20655.50 00	020654.40
B,XCS2A-TO LOOP IN X0 ZERO TEST	20644.50 00	020655.00
SIC,SEN0+.32	1311.40 80	020655.40
B,SSW-TEST FOR LOOPING SWITCH	1301.10 00	020656.00
XCS2B KV,$X1,XCSZ4-TEST X1 FOR ZEROS, BITS 0 TO 24	21755.42 90	020656.40
SIC,SEN	1310.00 80	020657.00
BZXEZ,SERS-ERR IF NOT EQUAL	1304.32 C4	020657.40
KC,$X1,XCSZ4-TEST ZEROS IN 28 TO 45	21755.43 90	020660.00
SIC,SEN	1310.00 80	020660.40
BZXE,SERS-ERR IF NOT EQUAL	1304.32 C0	020661.00
SR,$X1,XCSZ5-REFILL INTO WORK AREA	21756.03 70	020661.40
SIC,SEN	1310.00 80	020662.00
BXF,SERS-ERR IF XF IS ONE	1304.23 42	020662.40
LC,$X1,XCSZ5	21756.02 50	020663.00
KC,$X1,XCSZ4 -46-63 TEST FOR ZEROS	21755.43 90	020663.40
SIC,SEN	1310.00 80	020664.00
BZXE,SERS-ERR IF NOT EQUAL	1304.32 C0	020664.40
LX,$X1,XCSZ2	21754.02 10	020665.00
NOP,0-RESTORE REG. TO ALL ZEROS	0.30 00	020665.40
NOP,0	0.30 00	020666.00
B,$+1.0	20667.50 00	020666.40
B,XCS2B-TO LOOP IN X1 ZERO TEST	20656.50 00	020667.00
SIC,SEN0+.32	1311.40 80	020667.40
B,SSW-TEST FOR LOOPING SWITCH	1301.10 00	020670.00
XCS2C KV,$X2,XCSZ4-TEST X2 FOR ZERO BITS 0 TO 24	21755.44 90	020670.40
SIC,SEN	1310.00 80	020671.00
BZXEZ,SERS-ERR IF NOT EQUAL	1304.32 C4	020671.40
KC,$X2,XCSZ4-TEST ZEROS IN 28 TO 45	21755.45 90	020672.00
SIC,SEN	1310.00 80	020672.40
BZXE,SERS-ERR IF NOT EQUAL	1304.32 C0	020673.00
SR,$X2,XCSZ5-REFILL INTO WORK AREA	21756.05 70	020673.40
SIC,SEN	1310.00 80	020674.00
BXF,SERS-ERR IF XF IS ONE	1304.23 42	020674.40
LC,$X2,XCSZ5	21756.04 50	020675.00
KC,$X2,XCSZ4 -46-63 TEST FOR ZEROS	21755.45 90	020675.40
SIC,SEN	1310.00 80	020676.00
BZXE,SERS-ERR IF NOT EQUAL	1304.32 C0	020676.40
LX,$X2,XCSZ2	21754.04 10	020677.00
NOP,0-RESTORE REG TO ALL ZEROS	0.30 00	020677.40
NOP,0	0.30 00	020700.00

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                  B,$+1.0                                          20701.50 00              020701.40
            B,XCS2C-TO LOOP IN X2 ZERO TEST                        20670.50 00              020701.40
            SIC,SEN0+.32                                           1311.40 80               020701.40
                       B,SSW-TEST FOR LOOPING SWITCH               1301.10 00               020702.00
XCS2D       KV,$X3,XCSZ4-TEST X3 FOR ZEROS, BITS 0 TO 24           21755.46 90              020702.40
            SIC,SEN                                                1310.00 80               020703.00
                       BZXEZ,SERS            -ERR IF NOT EQUAL     1304.32 C4               020703.40
            KC,$X3,XCSZ4-TEST ZEROS IN 28 TO 45                    21755.47 90              020704.00
            SIC,SEN                                                1310.00 80               020704.40
                       BZXE,SERS-ERR IF NOT EQUAL                  1304.32 C0               020705.00
            SR,$X3,XCSZ5-REFILL INTO WORK AREA                     21756.07 70              020705.40
            SIC,SEN                                                1310.00 80               020706.00
                       BXF,SERS-ERR IF XF IS ONE                   1304.23 42               020706.40
            LC,$X3,XCSZ5                                           21756.06 50              020707.00
                       KC,$X3,XCSZ4        -46-63 TEST FOR ZEROS   21755.47 90              020707.40
            SIC,SEN                                                1310.00 80               020710.00
                       BZXE,SERS-ERR IF NOT EQUAL                  1304.32 C0               020710.40
            LX,$X3,XCSZ2                                           21754.06 10              020711.00
                       NOP,0-RESTORE REG TO ALL ZEROS             0.30 00                  020711.40
            NOP,0                                                  0.30 00                  020712.00
                  B,$+1.0                                          20713.50 00              020712.40
            B,XCS2D-TO LOOP IN X3 ZERO TEST                        20702.50 00              020713.00
            SIC,SEN0+.32                                           1311.40 80               020713.40
                       B,SSW-TEST FOR LOOPING SWITCH               1301.10 00               020714.00
XCS2E       KV,$X4,XCSZ4-TEST X4 FOR ZERO BITS 0 TO 24             21755.50 90              020714.40
            SIC,SEN                                                1310.00 80               020715.00
                       BZXEZ,SERS-ERR IF NOT EQUAL                 1304.32 C4               020715.40
            KC,$X4,XCSZ4-TEST ZEROS IN 28 TO 45                    21755.51 90              020716.00
            SIC,SEN                                                1310.00 80               020716.40
                       BZXE,SERS-ERR IF NOT EQUAL                  1304.32 C0               020717.00
            SR,$X4,XCSZ5-REFILL INTO WORK AREA                     21756.11 70              020717.40
            SIC,SEN                                                1310.00 80               020720.00
                       BXF,SERS-ERR IF XF IS ONE                   1304.23 42               020720.40
            LC,$X4,XCSZ5                                           21756.10 50              020721.00
                       KC,$X4,XCSZ4        -46-63 TEST FOR ZEROS   21755.51 90              020721.40
            SIC,SEN                                                1310.00 80               020722.00
                       BZXE,SERS-ERR IF NOT EQUAL                  1304.32 C0               020722.40
            LX,$X4,XCSZ2                                           21754.10 10              020723.00
                       NOP,0-RESTORE REG TO ALL ZEROS             0.30 00                  020723.40
            NOP,0                                                  0.30 00                  020724.00
                  B,$+1.0                                          20725.50 00              020724.40
            B,XCS2E-TO LOOP IN X4 ZERO TEST                        20714.50 00              020725.00
            SIC,SEN0+.32                                           1311.40 80               020725.40
                       B,SSW-TEST FOR LOOPING SWITCH               1301.10 00               020726.00
XCS2F       KV,$X5,XCSZ4-TEST X5 FOR ZEROS, BITS 0 TO 24           21755.52 90              020726.40
            SIC,SEN                                                1310.00 80               020727.00
                       BZXEZ,SERS-ERR IF NOT EQUAL                 1304.32 C4               020727.40
            KC,$X5,XCSZ4-TEST ZEROS IN 28 TO 45                    21755.53 90              020730.00
            SIC,SEN                                                1310.00 80               020730.40
                       BZXE,SERS-ERR IF NOT EQUAL                  1304.32 C0               020731.00
            SR,$X5,XCSZ5-REFILL INTO WORK AREA                     21756.13 70              020731.40
            SIC,SEN                                                1310.00 80               020732.00
                       BXF,SERS-ERR IF XF IS ONE                   1304.23 42               020732.40
            LC,$X5,XCSZ5                                           21756.12 50              020733.00
                       KC,$X5,XCSZ4        -46-63 TEST FOR ZEROS   21755.53 90              020733.40
            SIC,SEN                                                1310.00 80               020734.00
                       BZXE,SERS-ERR IF NOT EQUAL                  1304.32 C0               020734.40
            LX,$X5,XCSZ2                                           21754.12 10              020735.00
                       NOP,0-RESTORE REG.TO ALL ZEROS             0.30 00                  020735.40
            NOP,0                                                  0.30 00                  020736.00
                  B,$+1.0                                          20737.50 00              020736.40
            B,XCS2F-TO LOOP IN X5 ZERO TEST                        20726.50 00              020737.00
            SIC,SEN0+.32                                           1311.40 80               020737.40
                       B,SSW-TEST FOR LOOPING SWITCH               1301.10 00               020740.00
XCS2G       KV,$X6,XCSZ4-TEST X6 FOR ZERO BITS 0 TO 24             21755.54 90              020740.40
            SIC,SEN                                                1310.00 80               020741.00
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                BZXEZ,SERS-ERR IF NOT EQUAL                         1304.32 C4          020741.40
          KC,$X6,XCSZ4-TEST ZEROS IN 28 TO 45                       21755.55 90         020742.00
          SIC,SEN                                                   1310.00 80          020742.40
                BZXE,SERS-ERR IF NOT EQUAL                          1304.32 C0          020743.00
          SR,$X6,XCSZ5-REFILL INTO WORK AREA                        21756.15 70         020743.40
          SIC,SEN                                                   1310.00 80          020744.00
                BXF,SERS-ERR IF XF IS ONE                           1304.23 42          020744.40
          LC,$X6,XCSZ5                                              21756.14 50         020745.00
                KC,$X6,XCSZ4      -46-63 TEST FOR ZEROS             21755.55 90         020745.40
          SIC,SEN                                                   1310.00 80          020746.00
                BZXE,SERS-ERR IF NOT EQUAL                          1304.32 C0          020746.40
          LX,$X6,XCSZ2                                              21754.14 10         020747.00
                NOP,0-RESTORE REG TO ALL ZEROS                      0.30 00             020747.40
          NOP,0                                                     0.30 00             020750.00
                B,$+1.0                                             20751.50 00         020750.40
          B,XCS2G-TO LOOP IN X6 ZERO TEST                           20740.50 00         020751.00
          SIC,SEN0+.32                                              1311.40 80          020751.40
                B,SSW-TEST FOR LOOPING SWITCH                       1301.10 00          020752.00
XCS2H     KV,$X7,XCSZ4-TEST X7 FOR ZEROS,BITS 0 TO 24               21755.56 90         020752.40
          SIC,SEN                                                   1310.00 80          020753.00
                BZXEZ,SERS-ERR IF NOT EQUAL                         1304.32 C4          020753.40
          KC,$X7,XCSZ4-TEST ZEROS IN 28 TO 45                       21755.57 90         020754.00
          SIC,SEN                                                   1310.00 80          020754.40
                BZXE,SERS-ERR IF NOT EQUAL                          1304.32 C0          020755.00
          SR,$X7,XCSZ5-REFILL INTO WORK AREA                        21756.17 70         020755.40
          SIC,SEN                                                   1310.00 80          020756.00
                BXF,SERS-ERR IF XF IS ONE                           1304.23 42          020756.40
          LC,$X7,XCSZ5                                              21756.16 50         020757.00
                KC,$X7,XCSZ4      -46-63 TEST FOR ZEROS             21755.57 90         020757.40
          SIC,SEN                                                   1310.00 80          020760.00
                BZXE,SERS-ERR IF NOT EQUAL                          1304.32 C0          020760.40
          LX,$X7,XCSZ2                                              21754.16 10         020761.00
                NOP,0-RESTORE REG.TO ALL ZEROS                      0.30 00             020761.40
          NOP,0                                                     0.30 00             020762.00
                B,$+1.0                                             20763.50 00         020762.40
          B,XCS2H-TO LOOP IN X7 ZERO TEST                           20752.50 00         020763.00
          SIC,SEN0+.32                                              1311.40 80          020763.40
                B,SSW-TEST FOR LOOPING SWITCH                       1301.10 00          020764.00
XCS2J     KV,$X8,XCSZ4-TEST X8 FOR ZERO BITS 0 TO 24                21755.60 90         020764.40
          SIC,SEN                                                   1310.00 80          020765.00
                BZXEZ,SERS-ERR IF NOT EQUAL                         1304.32 C4          020765.40
          KC,$X8,XCSZ4-TEST ZEROS IN 28 TO 45                       21755.61 90         020766.00
          SIC,SEN                                                   1310.00 80          020766.40
                BZXE,SERS-ERR IF NOT EQUAL                          1304.32 C0          020767.00
          SR,$X8,XCSZ5-REFILL INTO WORK AREA                        21756.21 70         020767.40
          SIC,SEN                                                   1310.00 80          020770.00
                BXF,SERS-ERR IF XF IS ONE                           1304.23 42          020770.40
          LC,$X8,XCSZ5                                              21756.20 50         020771.00
                KC,$X8,XCSZ4      -46-63 TEST FOR ZEROS             21755.61 90         020771.40
          SIC,SEN                                                   1310.00 80          020772.00
                BZXE,SERS-ERR IF NOT EQUAL                          1304.32 C0          020772.40
          LX,$X8,XCSZ2                                              21754.20 10         020773.00
                NOP,0-RESTORE REG TO ALL ZEROS                      0.30 00             020773.40
          NOP,0                                                     0.30 00             020774.00
                B,$+1.0                                             20775.50 00         020774.40
          B,XCS2J-TO LOOP IN X8 ZERO TEST                           20764.50 00         020775.00
          SIC,SEN0+.32                                              1311.40 80          020775.40
                B,SSW-TEST FOR LOOPING SWITCH                       1301.10 00          020776.00
XCS2K     KV,$X9,XCSZ4-TEST X9 FOR ZEROS, BITS 0 TO 24              21755.62 90         020776.40
          SIC,SEN                                                   1310.00 80          020777.00
                BZXEZ,SERS-ERR IF NOT EQUAL                         1304.32 C4          020777.40
          KC,$X9,XCSZ4-TEST ZEROS IN 28 TO 45                       21755.63 90         021000.00
          SIC,SEN                                                   1310.00 80          021000.40
                BZXE,SERS-ERR IF NOT EQUAL                          1304.32 C0          021001.00
          SR,$X9,XCSZ5-REFILL INTO WORK AREA                        21756.23 70         021001.40
          SIC,SEN                                                   1310.00 80          021002.00
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            BXF,SERS-ERR IF XF IS ONE                                    1304.23 42            021002.40
      LC,$X9,XCSZ5                                                       21756.22 50           021003.00
            KC,$X9,XCSZ4      -46-63 TEST FOR ZEROS                      21755.63 90           021003.40
      SIC,SEN                                                            1310.00 80            021004.00
            BZXE,SERS-ERR IF NOT EQUAL                                   1304.32 C0            021004.40
      LX,$X9,XCSZ2                                                       21754.22 10           021005.00
            NOP,0-RESTORE REG.TO ALL ZEROS                              0.30 00               021005.40
      NOP,0                                                             0.30 00               021006.00
            B,$+1.0                                                     21007.50 00           021006.40
      B,XCS2K-TO LOOP IN X9 ZERO TEST                                   20776.50 00           021007.00
      SIC,SEN0+.32                                                      1311.40 80            021007.40
            B,SSW-TEST FOR LOOPING SWITCH                               1301.10 00            021010.00
XCS2L KV,$X10,XCSZ4-TEST X10 FOR ZERO BITS 0 TO 24                       21755.64 90           021010.40
      SIC,SEN                                                           1310.00 80            021011.00
            BZXEZ,SERS-ERR IF NOT EQUAL                                 1304.32 C4            021011.40
      KC,$X10,XCSZ4-TEST ZEROS IN 28 TO 45                              21755.65 90           021012.00
      SIC,SEN                                                           1310.00 80            021012.40
            BZXE,SERS-ERR IF NOT EQUAL                                  1304.32 C0            021013.00
      SR,$X10,XCSZ5-REFILL INTO WORK AREA                               21756.25 70           021013.40
      SIC,SEN                                                           1310.00 80            021014.00
            BXF,SERS-ERR IF XF IS ONE                                   1304.23 42            021014.40
      LC,$X10,XCSZ5                                                     21756.24 50           021015.00
            KC,$X10,XCSZ4      -46-63 TEST FOR ZEROS                    21755.65 90           021015.40
      SIC,SEN                                                           1310.00 80            021016.00
            BZXE,SERS-ERR IF NOT EQUAL                                  1304.32 C0            021016.40
      LX,$X10,XCSZ2                                                     21754.24 10           021017.00
            NOP,0-RESTORE REG TO ALL ZEROS                             0.30 00               021017.40
      NOP,0                                                            0.30 00               021020.00
            B,$+1.0                                                    21021.50 00           021020.40
      B,XCS2L-TO LOOP IN X10 ZERO TEST                                 21010.50 00           021021.00
      SIC,SEN0+.32                                                     1311.40 80            021021.40
            B,SSW-TEST FOR LOOPING SWITCH                              1301.10 00            021022.00
XCS2M LX,$X11,XCSZ2                 -REINITIALIZE X11                    21754.26 10           021022.40
      KV,$X11,XCSZ4                 -TEST X11 FOR ZEROS, BITS 0-24       21755.66 90           021023.00
      SIC,SEN                                                          1310.00 80            021023.40
            BZXEZ,SERS-ERR IF NOT EQUAL                                1304.32 C4            021024.00
      KC,$X11,XCSZ4-TEST ZEROS IN 28 TO 45                             21755.67 90           021024.40
      SIC,SEN                                                          1310.00 80            021025.00
            BZXE,SERS-ERR IF NOT EQUAL                                 1304.32 C0            021025.40
      SR,$X11,XCSZ5-REFILL INTO WORK AREA                              21756.27 70           021026.00
      SIC,SEN                                                          1310.00 80            021026.40
            BXF,SERS-ERR IF XF IS ONE                                  1304.23 42            021027.00
      LC,$X11,XCSZ5                                                    21756.26 50           021027.40
            KC,$X11,XCSZ4      -46-63 TEST FOR ZEROS                   21755.67 90           021030.00
      SIC,SEN                                                          1310.00 80            021030.40
            BZXE,SERS-ERR IF NOT EQUAL                                 1304.32 C0            021031.00
      LX,$X11,XCSZ2                                                    21754.26 10           021031.40
            NOP,0-RESTORE REG.TO ALL ZEROS                            0.30 00               021032.00
      NOP,0                                                           0.30 00               021032.40
            B,$+1.0                                                   21034.10 00           021033.00
      B,XCS2M-TO LOOP IN X11 ZERO TEST                                21022.50 00           021033.40
      SIC,SEN0+.32                                                    1311.40 80            021034.00
            B,SSW-TEST FOR LOOPING SWITCH                             1301.10 00            021034.40
XCS2N LX,$X12,XCSZ2                 -REINITIALIZE X12                   21754.30 10           021035.00
      KV,$X12,XCSZ4                 -TEST X12 FOR ZERO BITS 0-24        21755.70 90           021035.40
      SIC,SEN                                                         1310.00 80            021036.00
            BZXEZ,SERS-ERR IF NOT EQUAL                               1304.32 C4            021036.40
      KC,$X12,XCSZ4-TEST ZEROS IN 28 TO 45                            21755.71 90           021037.00
      SIC,SEN                                                         1310.00 80            021037.40
            BZXE,SERS-ERR IF NOT EQUAL                                1304.32 C0            021040.00
      SR,$X12,XCSZ5-REFILL INTO WORK AREA                             21756.31 70           021040.40
      SIC,SEN                                                         1310.00 80            021041.00
            BXF,SERS-ERR IF XF IS ONE                                 1304.23 42            021041.40
      LC,$X12,XCSZ5                                                   21756.30 50           021042.00
            KC,$X12,XCSZ4      -46-63 TEST FOR ZEROS                  21755.71 90           021042.40
      SIC,SEN                                                         1310.00 80            021043.00
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                BZXE,SERS-ERR IF NOT EQUAL                     1304.32 C0        021043.40
        LX,$X12,XCSZ2                                          21754.30 10       021044.00
                NOP,0-RESTORE REG TO ALL ZEROS                0.30 00           021044.00
        NOP,0                                                 0.30 00           021045.00
                B,$+1.0                                        21046.50 00       021045.40
        B,XCS2N-TO LOOP IN X12 ZERO TEST                       21035.10 00       021046.00
        SIC,SEN0+.32                                           1311.40 80        021046.40
                B,SSW-TEST FOR LOOPING SWITCH                 1301.10 00        021047.00
XCS2P   LX,$X13,XCSZ2                -REINITIALIZE X13         21754.32 10       021047.40
        KV,$X13,XCSZ4                -TEST X13 FOR ZEROS,BITS 0-24  21755.72 90  021050.00
        SIC,SEN                                                1310.00 80        021050.40
                BZXEZ,SERS-ERR IF NOT EQUAL                   1304.32 C4        021051.00
        KC,$X13,XCSZ4-TEST ZEROS IN 28 TO 45                   21755.73 90       021051.40
        SIC,SEN                                                1310.00 80        021052.00
                BZXE,SERS-ERR IF NOT EQUAL                    1304.32 C0        021052.40
        SR,$X13,XCSZ5-REFILL INTO WORK AREA                    21756.33 70       021053.00
        SIC,SEN                                                1310.00 80        021053.40
                BXF,SERS-ERR IF XF IS ONE                     1304.23 42        021054.00
        LC,$X13,XCSZ5                                          21756.32 50       021054.40
                KC,$X13,XCSZ4   -46-63 TEST FOR ZEROS         21755.73 90        021055.00
        SIC,SEN                                                1310.00 80        021055.40
                BZXE,SERS-ERR IF NOT EQUAL                    1304.32 C0        021056.00
        LX,$X13,XCSZ2                                          21754.32 10       021056.40
                NOP,0-RESTORE REG.TO ALL ZEROS               0.30 00           021057.00
        NOP,0                                                 0.30 00           021057.40
                B,$+1.0                                        21061.10 00       021060.00
        B,XCS2P-TO LOOP IN X13 ZERO TEST                       21047.50 00       021060.40
        SIC,SEN0+.32                                           1311.40 80        021061.00
                B,SSW-TEST FOR LOOPING SWITCH                 1301.10 00        021061.40
XCS2Q   KV,$X14,XCSZ4-TEST X14 FOR ZERO BITS 0 TO 24           21755.74 90       021062.00
        SIC,SEN                                                1310.00 80        021062.40
                BZXEZ,SERS-ERR IF NOT EQUAL                   1304.32 C4        021063.00
        KC,$X14,XCSZ4-TEST ZEROS IN 28 TO 45                   21755.75 90       021063.40
        SIC,SEN                                                1310.00 80        021064.00
                BZXE,SERS-ERR IF NOT EQUAL                    1304.32 C0        021064.40
        SR,$X14,XCSZ5-REFILL INTO WORK AREA                    21756.35 70       021065.00
        SIC,SEN                                                1310.00 80        021065.40
                BXF,SERS-ERR IF XF IS ONE                     1304.23 42        021066.00
        LC,$X14,XCSZ5                                          21756.34 50       021066.40
                KC,$X14,XCSZ4   -46-63 TEST FOR ZEROS         21755.75 90        021067.00
        SIC,SEN                                                1310.00 80        021067.40
                BZXE,SERS-ERR IF NOT EQUAL                    1304.32 C0        021070.00
        LX,$X14,XCSZ2                                          21754.34 10       021070.40
                NOP,0-RESTORE REG TO ALL ZEROS                0.30 00           021071.00
        NOP,0                                                 0.30 00           021071.40
                B,$+1.0                                        21073.10 00       021072.00
        B,XCS2Q-TO LOOP IN X14 ZERO TEST                       21062.10 00       021072.40
        SIC,SEN0+.32                                           1311.40 80        021073.00
                B,SSW-TEST FOR LOOPING SWITCH                 1301.10 00        021073.40
XCS2R   KV,$X15,XCSZ4-TEST X15 FOR ZEROS, BITS 0 TO 24         21755.76 90       021074.00
        SIC,SEN                                                1310.00 80        021074.40
                BZXEZ,SERS-ERR IF NOT EQUAL                   1304.32 C4        021075.00
        KC,$X15,XCSZ4-TEST ZEROS IN 28 TO 45                   21755.77 90       021075.40
        SIC,SEN                                                1310.00 80        021076.00
                BZXE,SERS-ERR IF NOT EQUAL                    1304.32 C0        021076.40
        SR,$X15,XCSZ5-REFILL INTO WORK AREA                    21756.37 70       021077.00
        SIC,SEN                                                1310.00 80        021077.40
                BXF,SERS-ERR IF XF IS ONE                     1304.23 42        021100.00
        LC,$X15,XCSZ5                                          21756.36 50       021100.40
                KC,$X15,XCSZ4   -46-63 TEST FOR ZEROS         21755.77 90        021101.00
        SIC,SEN                                                1310.00 80        021101.40
                BZXE,SERS-ERR IF NOT EQUAL                    1304.32 C0        021102.00
        LX,$X15,XCSZ2                                          21754.36 10       021102.40
                NOP,0-RESTORE REG.TO ALL ZEROS               0.30 00           021103.00
        NOP,0                                                 0.30 00           021103.40
                B,$+1.0                                        21105.10 00       021104.00
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B,XCS2R-TO LOOP IN X15 ZERO TEST                        21074.10 00        021104.40
                SIC,SEN0+.32                            1311.40 80         021105.00
                        B,SSW-TEST FOR LOOPING SWITCH   1301.10 00         021105.40
                B,$+1.0                                 21107.10 00        021106.00
                        B,XCS2-TO LOOP IN ALL REGS ZERO TEST  20634.50 00  021106.40
                SIC,SEN0+.32                            1311.40 80         021107.00
                        B,SSW                           1301.10 00         021107.40
                NOP,0                                   0.30 00            021110.00
                        NOP,0                           0.30 00            021110.40
XCS3    LX,$X0,XCSZ11                                   21762.00 10        021111.00
                LX,$X1,XCSZ11    -INITIALIZE BY SETTING 21762.02 10        021111.40
        LX,$X2,XCSZ11                                   21762.04 10        021112.00
                LX,$X3,XCSZ11-PATTERN A IN ALL IX       21762.06 10        021112.40
        LX,$X4,XCSZ11                                   21762.10 10        021113.00
                LX,$X5,XCSZ11-REGISTERS,ALL             21762.12 10        021113.40
        LX,$X6,XCSZ11                                   21762.14 10        021114.00
                LX,$X7,XCSZ11-PARITY BITS ON            21762.16 10        021114.40
        LX,$X8,XCSZ11                                   21762.20 10        021115.00
                LX,$X9,XCSZ11-INDEX FIELDS              21762.22 10        021115.40
        LX,$X12,XCSZ11                                  21762.30 10        021116.00
                LX,$X13,XCSZ11-ERRS PICKED UP BY CKTS.  21762.32 10        021116.40
        LX,$X10,XCSZ11                                  21762.24 10        021117.00
                LX,$X11,XCSZ11-ARE ZEROS. PARITY        21762.26 10        021117.40
        LX,$X14,XCSZ11                                  21762.34 10        021120.00
                LX,$X15,XCSZ11-PATTERN BITS TESTED IN PROG  21762.36 10    021120.40
XCS3A   KV,$X0,XCSZ11                -TEST $X0, FOR RIGHT PATTERN  21762.00 90  021121.00
        SIC,SEN                                         1310.00 80         021121.40
                BZXEZ,SERS-0-24 MUST BE SAME TO CONT.   1304.32 C4         021122.00
        KC,$X0,XCSZ14-28-45 MUST BE SAME TO CONT.       21765.01 90        021122.40
        SIC,SEN                                         1310.00 80         021123.00
                BZXE,SERS                               1304.32 C0         021123.40
        SR,$X0,XCSZ5-REFILL TO WORK AREA                21756.01 70        021124.00
        SIC,SEN                                         1310.00 80         021124.40
                BZXF,SERS-XF NOT 1 AS IT SHD BE %25□    1304.23 40         021125.00
        LC,$X0,XCSZ5-REFILL INTO COUNT FIELD            21756.00 50        021125.40
        KC,$X0,XCSZ15-ACTUALLY 46-63 FROM REFILL        21765.41 90        021126.00
        SIC,SEN                                         1310.00 80         021126.40
                BZXE,SERS-PATTERN MUST BE SAME TO CONT. 1304.32 C0         021127.00
        LX,$X0,XCSZ11-RESTORE IX REG TO INITIAL COND    21762.00 10        021127.40
        NOP,0                                           0.30 00            021130.00
                NOP,0                                   0.30 00            021130.40
XCS3B   KV,$X1,XCSZ11                   -TEST $X1 FOR RIGHT PATTERN  21762.02 90  021131.00
        SIC,SEN                                         1310.00 80         021131.40
                BZXEZ,SERS-0-24 MUST BE IDENTICAL TO CONT.  1304.32 C4     021132.00
        KC,$X1,XCSZ14-28-45 MUST BE IDENT. TO CONT      21765.03 90        021132.40
        SIC,SEN                                         1310.00 80         021133.00
                BZXE,SERS                               1304.32 C0         021133.40
        SR,$X1,XCSZ5-REFILL FLD TO WORK AREA            21756.03 70        021134.00
        SIC,SEN                                         1310.00 80         021134.40
                BZXF,SERS-XF NOT 1 AS IT SHD BE %25□    1304.23 40         021135.00
        LC,$X1,XCSZ5-REFILL INTO COUNT FIELD            21756.02 50        021135.40
        KC,$X1,XCSZ15-ACTUALLY 46-63 FROM REFILL        21765.43 90        021136.00
        SIC,SEN                                         1310.00 80         021136.40
                BZXE,SERS-PATTERN MUST BE SAME TO CONT. 1304.32 C0         021137.00
        LX,$X1,XCSZ11-RESTORE IX REG TO INITIAL COND.   21762.02 10        021137.40
        NOP,0                                           0.30 00            021140.00
                NOP,0                                   0.30 00            021140.40
XCS3C   KV,$X2,XCSZ11                   -TEST $X2 FOR RIGHT PATTERN  21762.04 90  021141.00
        SIC,SEN                                         1310.00 80         021141.40
                BZXEZ,SERS-0-24 MUST BE SAME TO CONT.   1304.32 C4         021142.00
        KC,$X2,XCSZ14-28-45 MUST BE SAME TO CONT.       21765.05 90        021142.40
        SIC,SEN                                         1310.00 80         021143.00
                BZXE,SERS                               1304.32 C0         021143.40
        SR,$X2,XCSZ5-REFILL TO WORK AREA                21756.05 70        021144.00
        SIC,SEN                                         1310.00 80         021144.40
                BZXF,SERS-XF NOT 1 AS IT SHD BE %25□    1304.23 40         021145.00
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          LC,$X2,XCSZ5-REFILL INTO COUNT FIELD                                   21756.04 50              021145.40
          KC,$X2,XCSZ15-ACTUALLY 46-63 FROM REFILL                              21765.45 90              021146.00
          SIC,SEN                                                                1310.00 80              021146.40
               BZXE,SERS-PATTERN MUST BE SAME TO CONT.                           1304.32 CO              021147.00
          LX,$X2,XCSZ11-RESTORE IX REG TO INITIAL COND                          21762.04 10              021147.40
          NOP,0                                                                     0.30 00              021150.00
               NOP,0                                                                0.30 00              021150.40
XCS3D     KV,$X3,XCSZ11                    -TEST $X3 FOR RIGHT PATTERN           21762.06 90              021151.00
          SIC,SEN                                                                1310.00 80              021151.40
               BZXEZ,SERS-0-24 MUST BE IDENTICAL TO CONT.                        1304.32 C4              021152.00
          KC,$X3,XCSZ14-28-45 MUST BE IDENT. TO CONT                            21765.07 90              021152.40
          SIC,SEN                                                                1310.00 80              021153.00
               BZXE,SERS                                                         1304.32 CO              021153.40
          SR,$X3,XCSZ5-REFILL FLD TO WORK AREA                                  21756.07 70              021154.00
          SIC,SEN                                                                1310.00 80              021154.40
               BZXF,SERS-XF NOT 1 AS IT SHD BE %25¤                              1304.23 40              021155.00
          LC,$X3,XCSZ5-REFILL INTO COUNT FIELD                                  21756.06 50              021155.40
          KC,$X3,XCSZ15-ACTUALLY 46-63 FROM REFILL                              21765.47 90              021156.00
          SIC,SEN                                                                1310.00 80              021156.40
               BZXE,SERS-PATTERN MUST BE SAME TO CONT.                           1304.32 CO              021157.00
          LX,$X3,XCSZ11-RESTORE IX REG TO INITIAL COND.                         21762.06 10              021157.40
          NOP,0                                                                     0.30 00              021160.00
               NOP,0                                                                0.30 00              021160.40
XCS3E     KV,$X4,XCSZ11                    -TEST $X4 FOR RIGHT PATTERN           21762.10 90              021161.00
          SIC,SEN                                                                1310.00 80              021161.40
               BZXEZ,SERS-0-24 MUST BE SAME TO CONT.                             1304.32 C4              021162.00
          KC,$X4,XCSZ14-28-45 MUST BE SAME TO CONT.                             21765.11 90              021162.40
          SIC,SEN                                                                1310.00 80              021163.00
               BZXE,SERS                                                         1304.32 CO              021163.40
          SR,$X4,XCSZ5-REFILL TO WORK AREA                                      21756.11 70              021164.00
          SIC,SEN                                                                1310.00 80              021164.40
               BZXF,SERS-XF NOT 1 AS IT SHD BE %25¤                              1304.23 40              021165.00
          LC,$X4,XCSZ5-REFILL INTO COUNT FIELD                                  21756.10 50              021165.40
          KC,$X4,XCSZ15-ACTUALLY 46-63 FROM REFILL                              21765.51 90              021166.00
          SIC,SEN                                                                1310.00 80              021166.40
               BZXE,SERS-PATTERN MUST BE SAME TO CONT.                           1304.32 CO              021167.00
          LX,$X4,XCSZ11-RESTORE IX REG TO INITIAL COND                          21762.10 10              021167.40
          NOP,0                                                                     0.30 00              021170.00
               NOP,0                                                                0.30 00              021170.40
XCS3F     KV,$X5,XCSZ11                    -TEST $X5 FOR RIGHT PATTERN           21762.12 90              021171.00
          SIC,SEN                                                                1310.00 80              021171.40
               BZXEZ,SERS-0-24 MUST BE IDENTICAL TO CONT.                        1304.32 C4              021172.00
          KC,$X5,XCSZ14-28-45 MUST BE IDENT. TO CONT                            21765.13 90              021172.40
          SIC,SEN                                                                1310.00 80              021173.00
               BZXE,SERS                                                         1304.32 CO              021173.40
          SR,$X5,XCSZ5-REFILL FLD TO WORK AREA                                  21756.13 70              021174.00
          SIC,SEN                                                                1310.00 80              021174.40
               BZXF,SERS-XF NOT 1 AS IT SHD BE %25¤                              1304.23 40              021175.00
          LC,$X5,XCSZ5-REFILL INTO COUNT FIELD                                  21756.12 50              021175.40
          KC,$X5,XCSZ15-ACTUALLY 46-63 FROM REFILL                              21765.53 90              021176.00
          SIC,SEN                                                                1310.00 80              021176.40
               BZXE,SERS-PATTERN MUST BE SAME TO CONT.                           1304.32 CO              021177.00
          LX,$X5,XCSZ11-RESTORE IX REG TO INITIAL COND.                         21762.12 10              021177.40
          NOP,0                                                                     0.30 00              021200.00
               NOP,0                                                                0.30 00              021200.40
XCS3G     KV,$X6,XCSZ11                    -TEST $X6 FOR RIGHT PATTERN           21762.14 90              021201.00
          SIC,SEN                                                                1310.00 80              021201.40
               BZXEZ,SERS-0-24 MUST BE SAME TO CONT.                             1304.32 C4              021202.00
          KC,$X6,XCSZ14-28-45 MUST BE SAME TO CONT.                             21765.15 90              021202.40
          SIC,SEN                                                                1310.00 80              021203.00
               BZXE,SERS                                                         1304.32 CO              021203.40
          SR,$X6,XCSZ5-REFILL TO WORK AREA                                      21756.15 70              021204.00
          SIC,SEN                                                                1310.00 80              021204.40
               BZXF,SERS-XF NOT 1 AS IT SHD BE %25¤                              1304.23 40              021205.00
          LC,$X6,XCSZ5-REFILL INTO COUNT FIELD                                  21756.14 50              021205.40
          KC,$X6,XCSZ15-ACTUALLY 46-63 FROM REFILL                              21765.55 90              021206.00
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          SIC,SEN                                                    1310.00 80        021206.40
              BZXE,SERS-PATTERN MUST BE SAME TO CONT.               1304.32 CO        021207.00
          LX,$X6,XCSZ11-RESTORE IX REG TO INITIAL COND             21762.14 10        021207.40
          NOP,0                                                        0.30 00        021210.00
                  NOP,0                                                0.30 00        021210.40
XCS3H     KV,$X7,XCSZ11              -TEST $X7 FOR RIGHT PATTERN    21762.16 90        021211.00
          SIC,SEN                                                    1310.00 80        021211.40
              BZXEZ,SERS-0-24 MUST BE IDENTICAL TO CONT.            1304.32 C4        021212.00
          KC,$X7,XCSZ14-28-45 MUST BE IDENT. TO CONT               21765.17 90        021212.40
          SIC,SEN                                                    1310.00 80        021213.00
              BZXE,SERS                                             1304.32 CO        021213.40
          SR,$X7,XCSZ5-REFILL FLD TO WORK AREA                     21756.17 70        021214.00
          SIC,SEN                                                    1310.00 80        021214.40
              BZXF,SERS-XF NOT 1 AS IT SHD BE %25¤                  1304.23 40        021215.00
          LC,$X7,XCSZ5-REFILL INTO COUNT FIELD                     21756.16 50        021215.40
          KC,$X7,XCSZ15-ACTUALLY 46-63 FROM REFILL                 21765.57 90        021216.00
          SIC,SEN                                                    1310.00 80        021216.40
              BZXE,SERS-PATTERN MUST BE SAME TO CONT.               1304.32 CO        021217.00
          LX,$X7,XCSZ11-RESTORE IX REG TO INITIAL COND.            21762.16 10        021217.40
          NOP,0                                                        0.30 00        021220.00
                  NOP,0                                                0.30 00        021220.40
XCS3J     KV,$X8,XCSZ11-TEST X8 FOR RIGHT PATTERN                  21762.20 90        021221.00
          SIC,SEN                                                    1310.00 80        021221.40
              BZXEZ,SERS-0-24 MUST BE SAME TO CONT.                 1304.32 C4        021222.00
          KC,$X8,XCSZ14-28-45 MUST BE SAME TO CONT.                21765.21 90        021222.40
          SIC,SEN                                                    1310.00 80        021223.00
              BZXE,SERS                                             1304.32 CO        021223.40
          SR,$X8,XCSZ5-REFILL TO WORK AREA                         21756.21 70        021224.00
          SIC,SEN                                                    1310.00 80        021224.40
              BZXF,SERS-XF NOT 1 AS IT SHD BE %25¤                  1304.23 40        021225.00
          LC,$X8,XCSZ5-REFILL INTO COUNT FIELD                     21756.20 50        021225.40
          KC,$X8,XCSZ15-ACTUALLY 46-63 FROM REFILL                 21765.61 90        021226.00
          SIC,SEN                                                    1310.00 80        021226.40
              BZXE,SERS-PATTERN MUST BE SAME TO CONT.               1304.32 CO        021227.00
          LX,$X8,XCSZ11-RESTORE IX REG TO INITIAL COND             21762.20 10        021227.40
          NOP,0                                                        0.30 00        021230.00
                  NOP,0                                                0.30 00        021230.40
XCS3K     KV,$X9,XCSZ11-TEST X9 FOR RIGHT PATTERN                  21762.22 90        021231.00
          SIC,SEN                                                    1310.00 80        021231.40
              BZXEZ,SERS-0-24 MUST BE IDENTICAL TO CONT.            1304.32 C4        021232.00
          KC,$X9,XCSZ14-28-45 MUST BE IDENT. TO CONT               21765.23 90        021232.40
          SIC,SEN                                                    1310.00 80        021233.00
              BZXE,SERS                                             1304.32 CO        021233.40
          SR,$X9,XCSZ5-REFILL FLD TO WORK AREA                     21756.23 70        021234.00
          SIC,SEN                                                    1310.00 80        021234.40
              BZXF,SERS-XF NOT 1 AS IT SHD BE %25¤                  1304.23 40        021235.00
          LC,$X9,XCSZ5-REFILL INTO COUNT FIELD                     21756.22 50        021235.40
          KC,$X9,XCSZ15-ACTUALLY 46-63 FROM REFILL                 21765.63 90        021236.00
          SIC,SEN                                                    1310.00 80        021236.40
              BZXE,SERS-PATTERN MUST BE SAME TO CONT.               1304.32 CO        021237.00
          LX,$X9,XCSZ11-RESTORE IX REG TO INITIAL COND.            21762.22 10        021237.40
          NOP,0                                                        0.30 00        021240.00
                  NOP,0                                                0.30 00        021240.40
XCS3L     KV,$X10,XCSZ11-TEST X10 FOR RIGHT PATTERN                21762.24 90        021241.00
          SIC,SEN                                                    1310.00 80        021241.40
              BZXEZ,SERS-0-24 MUST BE SAME TO CONT.                 1304.32 C4        021242.00
          KC,$X10,XCSZ14-28-45 MUST BE SAME TO CONT.               21765.25 90        021242.40
          SIC,SEN                                                    1310.00 80        021243.00
              BZXE,SERS                                             1304.32 CO        021243.40
          SR,$X10,XCSZ5-REFILL TO WORK AREA                        21756.25 70        021244.00
          SIC,SEN                                                    1310.00 80        021244.40
              BZXF,SERS-XF NOT 1 AS IT SHD BE %25¤                  1304.23 40        021245.00
          LC,$X10,XCSZ5-REFILL INTO COUNT FIELD                    21756.24 50        021245.40
          KC,$X10,XCSZ15-ACTUALLY 46-63 FROM REFILL                21765.65 90        021246.00
          SIC,SEN                                                    1310.00 80        021246.40
              BZXE,SERS-PATTERN MUST BE SAME TO CONT.               1304.32 CO        021247.00
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          LX,$X10,XCSZ11-RESTORE IX REG TO INITIAL COND          21762.24 10          021247.40
          NOP,0                                                   0.30 00              021250.00
                NOP,0                                             0.30 00              021250.40
XCS3M     KV,$X11,XCSZ11-TEST X11 FOR RIGHT PATTERN               21762.26 90          021251.00
          SIC,SEN                                                 1310.00 80           021251.40
                BZXEZ,SERS-0-24 MUST BE IDENTICAL TO CONT.        1304.32 C4           021252.00
          KC,$X11,XCSZ14-28-45 MUST BE IDENT. TO CONT             21765.27 90          021252.40
          SIC,SEN                                                 1310.00 80           021253.00
                BZXE,SERS                                         1304.32 C0           021253.40
          SR,$X11,XCSZ5-REFILL FLD TO WORK AREA                   21756.27 70          021254.00
          SIC,SEN                                                 1310.00 80           021254.40
                BZXF,SERS-XF NOT 1 AS IT SHD BE %25¤              1304.23 40           021255.00
          LC,$X11,XCSZ5-REFILL INTO COUNT FIELD                   21756.26 50          021255.40
          KC,$X11,XCSZ15-ACTUALLY 46-63 FROM REFILL               21765.67 90          021256.00
          SIC,SEN                                                 1310.00 80           021256.40
                BZXE,SERS-PATTERN MUST BE SAME TO CONT.           1304.32 C0           021257.00
          LX,$X11,XCSZ11-RESTORE IX REG TO INITIAL COND.          21762.26 10          021257.40
          NOP,0                                                   0.30 00              021260.00
                NOP,0                                             0.30 00              021260.40
XCS3N     KV,$X12,XCSZ11-TEST X12 FOR RIGHT PATTERN               21762.30 90          021261.00
          SIC,SEN                                                 1310.00 80           021261.40
                BZXEZ,SERS-0-24 MUST BE SAME TO CONT.             1304.32 C4           021262.00
          KC,$X12,XCSZ14-28-45 MUST BE SAME TO CONT.              21765.31 90          021262.40
          SIC,SEN                                                 1310.00 80           021263.00
                BZXE,SERS                                         1304.32 C0           021263.40
          SR,$X12,XCSZ5-REFILL TO WORK AREA                       21756.31 70          021264.00
          SIC,SEN                                                 1310.00 80           021264.40
                BZXF,SERS-XF NOT 1 AS IT SHD BE %25¤              1304.23 40           021265.00
          LC,$X12,XCSZ5-REFILL INTO COUNT FIELD                   21756.30 50          021265.40
          KC,$X12,XCSZ15-ACTUALLY 46-63 FROM REFILL               21765.71 90          021266.00
          SIC,SEN                                                 1310.00 80           021266.40
                BZXE,SERS-PATTERN MUST BE SAME TO CONT.           1304.32 C0           021267.00
          LX,$X12,XCSZ11-RESTORE IX REG TO INITIAL COND           21762.30 10          021267.40
          NOP,0                                                   0.30 00              021270.00
                NOP,0                                             0.30 00              021270.40
XCS3P     LX,$X13,XCSZ11                    -REINITIALIZE X13      21762.32 10          021271.00
          KV,$X13,XCSZ11                    -TEST X13 FOR RIGHT PATTERN  21762.32 90    021271.40
          SIC,SEN                                                 1310.00 80           021272.00
                BZXEZ,SERS-0-24 MUST BE IDENTICAL TO CONT.        1304.32 C4           021272.40
          KC,$X13,XCSZ14-28-45 MUST BE IDENT. TO CONT             21765.33 90          021273.00
          SIC,SEN                                                 1310.00 80           021273.40
                BZXE,SERS                                         1304.32 C0           021274.00
          SR,$X13,XCSZ5-REFILL FLD TO WORK AREA                   21756.33 70          021274.40
          SIC,SEN                                                 1310.00 80           021275.00
                BZXF,SERS-XF NOT 1 AS IT SHD BE %25¤              1304.23 40           021275.40
          LC,$X13,XCSZ5-REFILL INTO COUNT FIELD                   21756.32 50          021276.00
          KC,$X13,XCSZ15-ACTUALLY 46-63 FROM REFILL               21765.73 90          021276.40
          SIC,SEN                                                 1310.00 80           021277.00
                BZXE,SERS-PATTERN MUST BE SAME TO CONT.           1304.32 C0           021277.40
          LX,$X13,XCSZ11-RESTORE IX REG TO INITIAL COND.          21762.32 10          021300.00
          NOP,0                                                   0.30 00              021300.40
                NOP,0                                             0.30 00              021301.00
XCS3Q     KV,$X14,XCSZ11-TEST X14 FOR RIGHT PATTERN               21762.34 90          021301.40
          SIC,SEN                                                 1310.00 80           021302.00
                BZXEZ,SERS-0-24 MUST BE SAME TO CONT.             1304.32 C4           021302.40
          KC,$X14,XCSZ14-28-45 MUST BE SAME TO CONT.              21765.35 90          021303.00
          SIC,SEN                                                 1310.00 80           021303.40
                BZXE,SERS                                         1304.32 C0           021304.00
          SR,$X14,XCSZ5-REFILL TO WORK AREA                       21756.35 70          021304.40
          SIC,SEN                                                 1310.00 80           021305.00
                BZXF,SERS-XF NOT 1 AS IT SHD BE %25¤              1304.23 40           021305.40
          LC,$X14,XCSZ5-REFILL INTO COUNT FIELD                   21756.34 50          021306.00
          KC,$X14,XCSZ15-ACTUALLY 46-63 FROM REFILL               21765.75 90          021306.40
          SIC,SEN                                                 1310.00 80           021307.00
                BZXE,SERS-PATTERN MUST BE SAME TO CONT.           1304.32 C0           021307.40
          LX,$X14,XCSZ11-RESTORE IX REG TO INITIAL COND           21762.34 10          021310.00
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                  NOP,0                                               0.30 00          021310.40
                      NOP,0                                           0.30 00          021311.00
XCS3R   KV,$X15,XCSZ11-TEST X15 FOR RIGHT PATTERN                 21762.36 90          021311.40
        SIC,SEN                                                    1310.00 80          021312.00
                BZXEZ,SERS-0-24 MUST BE IDENTICAL TO CONT.         1304.32 C4          021312.40
        KC,$X15,XCSZ14-28-45 MUST BE IDENT. TO CONT               21765.37 90          021313.00
        SIC,SEN                                                    1310.00 80          021313.40
                BZXE,SERS                                          1304.32 C0          021314.00
        SR,$X15,XCSZ5-REFILL FLD TO WORK AREA                     21756.37 70          021314.40
        SIC,SEN                                                    1310.00 80          021315.00
                BZXF,SERS-XF NOT 1 AS IT SHD BE %25¤               1304.23 40          021315.40
        LC,$X15,XCSZ5-REFILL INTO COUNT FIELD                     21756.36 50          021316.00
        KC,$X15,XCSZ15-ACTUALLY 46-63 FROM REFILL                 21765.77 90          021316.40
        SIC,SEN                                                    1310.00 80          021317.00
                BZXE,SERS-PATTERN MUST BE SAME TO CONT.            1304.32 C0          021317.40
        LX,$X15,XCSZ11-RESTORE IX REG TO INITIAL COND.            21762.36 10          021320.00
        NOP,0                                                      0.30 00             021320.40
                NOP,0                                              0.30 00             021321.00
        B,$+1.0                                                    21322.50 00         021321.40
                B,XCS3-LOOP IN ALL REG. A PATTERN TEST             21111.10 00         021322.00
        SIC,SEN0+.32                                               1311.40 80          021322.40
                    B,SSW                                          1301.10 00          021323.00
XCS4    LX,$X0,XCSZ12                                              21763.00 10          021323.40
                    LX,$X1,XCSZ12-INITIALIZE BY SETTING            21763.02 10          021324.00
        LX,$X2,XCSZ12                                              21763.04 10          021324.40
                    LX,$X3,XCSZ12-PATTERN B IN ALL IX              21763.06 10          021325.00
        LX,$X4,XCSZ12                                              21763.10 10          021325.40
                    LX,$X5,XCSZ12-REGISTERS, LEFT HALF             21763.12 10          021326.00
        LX,$X6,XCSZ12                                              21763.14 10          021326.40
                    LX,$X7,XCSZ12-PARITYS ARE ONES                 21763.16 10          021327.00
        LX,$X8,XCSZ12                                              21763.20 10          021327.40
                    LX,$X9,XCSZ12-RIGHT HALF                       21763.22 10          021330.00
        LX,$X10,XCSZ12                                             21763.24 10          021330.40
                    LX,$X11,XCSZ12-PARITYS ARE ZEROS.              21763.26 10          021331.00
        LX,$X12,XCSZ12                                             21763.30 10          021331.40
                    LX,$X13,XCSZ12-P ERRS FOUND BY CKTS            21763.32 10          021332.00
        LX,$X14,XCSZ12                                             21763.34 10          021332.40
                    LX,$X15,XCSZ12-PATTERN ERRS BY PROG            21763.36 10          021333.00
XCS4A   KV,$X0,XCSZ12-TEST X0 FOR RIGHT PATTERN                   21763.00 90          021333.40
        SIC,SEN                                                    1310.00 80          021334.00
                BZXEZ,SERS-0-24 MUST BE SAME TO CONT.              1304.32 C4          021334.40
        KC,$X0,XCSZ16-28-45 MUST BE SAME TO CONT.                 21766.01 90          021335.00
        SIC,SEN                                                    1310.00 80          021335.40
                BZXE,SERS                                          1304.32 C0          021336.00
        SR,$X0,XCSZ5-REFILL TO WORK AREA                          21756.01 70          021336.40
        SIC,SEN                                                    1310.00 80          021337.00
                BXF,SERS-XF NOT 0 AS IT SHD BE %25¤                1304.23 42          021337.40
        LC,$X0,XCSZ5-REFILL INTO COUNT FIELD                      21756.00 50          021340.00
        KC,$X0,XCSZ17-ACTUALLY 46-63 FROM REFILL                  21766.41 90          021340.40
        SIC,SEN                                                    1310.00 80          021341.00
                BZXE,SERS-PATTERN MUST BE SAME TO CONT.            1304.32 C0          021341.40
        LX,$X0,XCSZ12-RESTORE IX REG TO INITIAL COND              21763.00 10          021342.00
        NOP,0                                                      0.30 00             021342.40
                NOP,0                                              0.30 00             021343.00
XCS4B   KV,$X1,XCSZ12-TEST X1 FOR RIGHT PATTERN                   21763.02 90          021343.40
        SIC,SEN                                                    1310.00 80          021344.00
                BZXEZ,SERS-0-24 MUST BE IDENTICAL TO CONT.         1304.32 C4          021344.40
        KC,$X1,XCSZ16-28-45 MUST BE IDENT. TO CONT                21766.03 90          021345.00
        SIC,SEN                                                    1310.00 80          021345.40
                BZXE,SERS                                          1304.32 C0          021346.00
        SR,$X1,XCSZ5-REFILL FLD TO WORK AREA                      21756.03 70          021346.40
        SIC,SEN                                                    1310.00 80          021347.00
                BXF,SERS-XF NOT 0 AS IT SHD BE %25¤                1304.23 42          021347.40
        LC,$X1,XCSZ5-REFILL INTO COUNT FIELD                      21756.02 50          021350.00
        KC,$X1,XCSZ17-ACTUALLY 46-63 FROM REFILL                  21766.43 90          021350.40
        SIC,SEN                                                    1310.00 80          021351.00
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                    BZXE,SERS-PATTERN MUST BE SAME TO CONT.           1304.32 CO            021351.40
          LX,$X1,XCSZ12-RESTORE IX REG TO INITIAL COND.               21763.02 10           021352.00
          NOP,0                                                       0.30 00               021352.40
                    NOP,0                                             0.30 00               021353.00
XCS4C     KV,$X2,XCSZ12-TEST X2 FOR RIGHT PATTERN                     21763.04 90           021353.40
          SIC,SEN                                                     1310.00 80            021354.00
                    BZXEZ,SERS-0-24 MUST BE SAME TO CONT.             1304.32 C4            021354.40
          KC,$X2,XCSZ16-28-45 MUST BE SAME TO CONT.                   21766.05 90           021355.00
          SIC,SEN                                                     1310.00 80            021355.40
                    BZXE,SERS                                         1304.32 CO            021356.00
          SR,$X2,XCSZ5-REFILL TO WORK AREA                            21756.05 70           021356.40
          SIC,SEN                                                     1310.00 80            021357.00
                    BXF,SERS-XF NOT 0 AS IT SHD BE %25¤               1304.23 42            021357.40
          LC,$X2,XCSZ5-REFILL INTO COUNT FIELD                        21756.04 50           021360.00
          KC,$X2,XCSZ17-ACTUALLY 46-63 FROM REFILL                    21766.45 90           021360.40
          SIC,SEN                                                     1310.00 80            021361.00
                    BZXE,SERS-PATTERN MUST BE SAME TO CONT.           1304.32 CO            021361.40
          LX,$X2,XCSZ12-RESTORE IX REG TO INITIAL COND                21763.04 10           021362.00
          NOP,0                                                       0.30 00               021362.40
                    NOP,0                                             0.30 00               021363.00
XCS4D     KV,$X3,XCSZ12-TEST X3 FOR RIGHT PATTERN                     21763.06 90           021363.40
          SIC,SEN                                                     1310.00 80            021364.00
                    BZXEZ,SERS-0-24 MUST BE IDENTICAL TO CONT.        1304.32 C4            021364.40
          KC,$X3,XCSZ16-28-45 MUST BE IDENT. TO CONT                  21766.07 90           021365.00
          SIC,SEN                                                     1310.00 80            021365.40
                    BZXE,SERS                                         1304.32 CO            021366.00
          SR,$X3,XCSZ5-REFILL FLD TO WORK AREA                        21756.07 70           021366.40
          SIC,SEN                                                     1310.00 80            021367.00
                    BXF,SERS-XF NOT 0 AS IT SHD BE %25¤               1304.23 42            021367.40
          LC,$X3,XCSZ5-REFILL INTO COUNT FIELD                        21756.06 50           021370.00
          KC,$X3,XCSZ17-ACTUALLY 46-63 FROM REFILL                    21766.47 90           021370.40
          SIC,SEN                                                     1310.00 80            021371.00
                    BZXE,SERS-PATTERN MUST BE SAME TO CONT.           1304.32 CO            021371.40
          LX,$X3,XCSZ12-RESTORE IX REG TO INITIAL COND.               21763.06 10           021372.00
          NOP,0                                                       0.30 00               021372.40
                    NOP,0                                             0.30 00               021373.00
XCS4E     KV,$X4,XCSZ12-TEST X4 FOR RIGHT PATTERN                     21763.10 90           021373.40
          SIC,SEN                                                     1310.00 80            021374.00
                    BZXEZ,SERS-0-24 MUST BE SAME TO CONT.             1304.32 C4            021374.40
          KC,$X4,XCSZ16-28-45 MUST BE SAME TO CONT.                   21766.11 90           021375.00
          SIC,SEN                                                     1310.00 80            021375.40
                    BZXE,SERS                                         1304.32 CO            021376.00
          SR,$X4,XCSZ5-REFILL TO WORK AREA                            21756.11 70           021376.40
          SIC,SEN                                                     1310.00 80            021377.00
                    BXF,SERS-XF NOT 0 AS IT SHD BE %25¤               1304.23 42            021377.40
          LC,$X4,XCSZ5-REFILL INTO COUNT FIELD                        21756.10 50           021400.00
          KC,$X4,XCSZ17-ACTUALLY 46-63 FROM REFILL                    21766.51 90           021400.40
          SIC,SEN                                                     1310.00 80            021401.00
                    BZXE,SERS-PATTERN MUST BE SAME TO CONT.           1304.32 CO            021401.40
          LX,$X4,XCSZ12-RESTORE IX REG TO INITIAL COND                21763.10 10           021402.00
          NOP,0                                                       0.30 00               021402.40
                    NOP,0                                             0.30 00               021403.00
XCS4F     KV,$X5,XCSZ12-TEST X5 FOR RIGHT PATTERN                     21763.12 90           021403.40
          SIC,SEN                                                     1310.00 80            021404.00
                    BZXEZ,SERS-0-24 MUST BE IDENTICAL TO CONT.        1304.32 C4            021404.40
          KC,$X5,XCSZ16-28-45 MUST BE IDENT. TO CONT                  21766.13 90           021405.00
          SIC,SEN                                                     1310.00 80            021405.40
                    BZXE,SERS                                         1304.32 CO            021406.00
          SR,$X5,XCSZ5-REFILL FLD TO WORK AREA                        21756.13 70           021406.40
          SIC,SEN                                                     1310.00 80            021407.00
                    BXF,SERS-XF NOT 0 AS IT SHD BE %25¤               1304.23 42            021407.40
          LC,$X5,XCSZ5-REFILL INTO COUNT FIELD                        21756.12 50           021410.00
          KC,$X5,XCSZ17-ACTUALLY 46-63 FROM REFILL                    21766.53 90           021410.40
          SIC,SEN                                                     1310.00 80            021411.00
                    BZXE,SERS-PATTERN MUST BE SAME TO CONT.           1304.32 CO            021411.40
          LX,$X5,XCSZ12-RESTORE IX REG TO INITIAL COND.               21763.12 10           021412.00
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                    NOP,0                                                  0.30 00        021412.40
                         NOP,0                                             0.30 00        021413.00
        XCS4G    KV,$X6,XCSZ12-TEST X6 FOR RIGHT PATTERN                   21763.14 90    021413.40
                 SIC,SEN                                                   1310.00 80     021414.00
                         BZXEZ,SERS-0-24 MUST BE SAME TO CONT.             1304.32 C4     021414.40
                 KC,$X6,XCSZ16-28-45 MUST BE SAME TO CONT.                 21766.15 90    021415.00
                 SIC,SEN                                                   1310.00 80     021415.40
                         BZXE,SERS                                         1304.32 C0     021416.00
                 SR,$X6,XCSZ5-REFILL TO WORK AREA                          21756.15 70    021416.40
                 SIC,SEN                                                   1310.00 80     021417.00
                         BXF,SERS-XF NOT 0 AS IT SHD BE %25¤               1304.23 42     021417.40
                 LC,$X6,XCSZ5-REFILL INTO COUNT FIELD                      21756.14 50    021420.00
                 KC,$X6,XCSZ17-ACTUALLY 46-63 FROM REFILL                  21766.55 90    021420.40
                 SIC,SEN                                                   1310.00 80     021421.00
                         BZXE,SERS-PATTERN MUST BE SAME TO CONT.           1304.32 C0     021421.40
                 LX,$X6,XCSZ12-RESTORE IX REG TO INITIAL COND              21763.14 10    021422.00
                 NOP,0                                                     0.30 00        021422.40
                         NOP,0                                             0.30 00        021423.00
        XCS4H    KV,$X7,XCSZ12-TEST X7 FOR RIGHT PATTERN                   21763.16 90    021423.40
                 SIC,SEN                                                   1310.00 80     021424.00
                         BZXEZ,SERS-0-24 MUST BE IDENTICAL TO CONT.        1304.32 C4     021424.40
                 KC,$X7,XCSZ16-28-45 MUST BE IDENT. TO CONT                21766.17 90    021425.00
                 SIC,SEN                                                   1310.00 80     021425.40
                         BZXE,SERS                                         1304.32 C0     021426.00
                 SR,$X7,XCSZ5-REFILL FLD TO WORK AREA                      21756.17 70    021426.40
                 SIC,SEN                                                   1310.00 80     021427.00
                         BXF,SERS-XF NOT 0 AS IT SHD BE %25¤               1304.23 42     021427.40
                 LC,$X7,XCSZ5-REFILL INTO COUNT FIELD                      21756.16 50    021430.00
                 KC,$X7,XCSZ17-ACTUALLY 46-63 FROM REFILL                  21766.57 90    021430.40
                 SIC,SEN                                                   1310.00 80     021431.00
                         BZXE,SERS-PATTERN MUST BE SAME TO CONT.           1304.32 C0     021431.40
                 LX,$X7,XCSZ12-RESTORE IX REG TO INITIAL COND.             21763.16 10    021432.00
                 NOP,0                                                     0.30 00        021432.40
                         NOP,0                                             0.30 00        021433.00
        XCS4J    KV,$X8,XCSZ12-TEST X8 FOR RIGHT PATTERN                   21763.20 90    021433.40
                 SIC,SEN                                                   1310.00 80     021434.00
                         BZXEZ,SERS-0-24 MUST BE SAME TO CONT.             1304.32 C4     021434.40
                 KC,$X8,XCSZ16-28-45 MUST BE SAME TO CONT.                 21766.21 90    021435.00
                 SIC,SEN                                                   1310.00 80     021435.40
                         BZXE,SERS                                         1304.32 C0     021436.00
                 SR,$X8,XCSZ5-REFILL TO WORK AREA                          21756.21 70    021436.40
                 SIC,SEN                                                   1310.00 80     021437.00
                         BXF,SERS-XF NOT 0 AS IT SHD BE %25¤               1304.23 42     021437.40
                 LC,$X8,XCSZ5-REFILL INTO COUNT FIELD                      21756.20 50    021440.00
                 KC,$X8,XCSZ17-ACTUALLY 46-63 FROM REFILL                  21766.61 90    021440.40
                 SIC,SEN                                                   1310.00 80     021441.00
                         BZXE,SERS-PATTERN MUST BE SAME TO CONT.           1304.32 C0     021441.40
                 LX,$X8,XCSZ12-RESTORE IX REG TO INITIAL COND              21763.20 10    021442.00
                 NOP,0                                                     0.30 00        021442.40
                         NOP,0                                             0.30 00        021443.00
        XCS4K    KV,$X9,XCSZ12-TEST X9 FOR RIGHT PATTERN                   21763.22 90    021443.40
                 SIC,SEN                                                   1310.00 80     021444.00
                         BZXEZ,SERS-0-24 MUST BE IDENTICAL TO CONT.        1304.32 C4     021444.40
                 KC,$X9,XCSZ16-28-45 MUST BE IDENT. TO CONT                21766.23 90    021445.00
                 SIC,SEN                                                   1310.00 80     021445.40
                         BZXE,SERS                                         1304.32 C0     021446.00
                 SR,$X9,XCSZ5-REFILL FLD TO WORK AREA                      21756.23 70    021446.40
                 SIC,SEN                                                   1310.00 80     021447.00
                         BXF,SERS-XF NOT 0 AS IT SHD BE %25¤               1304.23 42     021447.40
                 LC,$X9,XCSZ5-REFILL INTO COUNT FIELD                      21756.22 50    021450.00
                 KC,$X9,XCSZ17-ACTUALLY 46-63 FROM REFILL                  21766.63 90    021450.40
                 SIC,SEN                                                   1310.00 80     021451.00
                         BZXE,SERS-PATTERN MUST BE SAME TO CONT.           1304.32 C0     021451.40
                 LX,$X9,XCSZ12-RESTORE IX REG TO INITIAL COND.             21763.22 10    021452.00
                 NOP,0                                                     0.30 00        021452.40
                         NOP,0                                             0.30 00        021453.00
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XCS4L   KV,$X10,XCSZ12-TEST X10 FOR RIGHT PATTERN              21763.24 90        021453.40
        SIC,SEN                                                1310.00 80         021454.00
                BZXEZ,SERS-0-24 MUST BE SAME TO CONT.          1304.32 C4         021454.40
        KC,$X10,XCSZ16-28-45 MUST BE SAME TO CONT.             21766.25 90        021455.00
        SIC,SEN                                                1310.00 80         021455.40
                BZXE,SERS                                      1304.32 C0         021456.00
        SR,$X10,XCSZ5-REFILL TO WORK AREA                      21756.25 70        021456.40
        SIC,SEN                                                1310.00 80         021457.00
                BXF,SERS-XF NOT 0 AS IT SHD BE %25¤            1304.23 42         021457.40
        LC,$X10,XCSZ5-REFILL INTO COUNT FIELD                  21756.24 50        021460.00
        KC,$X10,XCSZ17-ACTUALLY 46-63 FROM REFILL              21766.65 90        021460.40
        SIC,SEN                                                1310.00 80         021461.00
                BZXE,SERS-PATTERN MUST BE SAME TO CONT.        1304.32 C0         021461.40
        LX,$X10,XCSZ12-RESTORE IX REG TO INITIAL COND          21763.24 10        021462.00
        NOP,0                                                  0.30 00            021462.40
                NOP,0                                          0.30 00            021463.00
XCS4M   KV,$X11,XCSZ12-TEST X11 FOR RIGHT PATTERN              21763.26 90        021463.40
        SIC,SEN                                                1310.00 80         021464.00
                BZXEZ,SERS-0-24 MUST BE IDENTICAL TO CONT.     1304.32 C4         021464.40
        KC,$X11,XCSZ16-28-45 MUST BE IDENT. TO CONT            21766.27 90        021465.00
        SIC,SEN                                                1310.00 80         021465.40
                BZXE,SERS                                      1304.32 C0         021466.00
        SR,$X11,XCSZ5-REFILL FLD TO WORK AREA                  21756.27 70        021466.40
        SIC,SEN                                                1310.00 80         021467.00
                BXF,SERS-XF NOT 0 AS IT SHD BE %25¤            1304.23 42         021467.40
        LC,$X11,XCSZ5-REFILL INTO COUNT FIELD                  21756.26 50        021470.00
        KC,$X11,XCSZ17-ACTUALLY 46-63 FROM REFILL              21766.67 90        021470.40
        SIC,SEN                                                1310.00 80         021471.00
                BZXE,SERS-PATTERN MUST BE SAME TO CONT.        1304.32 C0         021471.40
        LX,$X11,XCSZ12-RESTORE IX REG TO INITIAL COND.         21763.26 10        021472.00
        NOP,0                                                  0.30 00            021472.40
                NOP,0                                          0.30 00            021473.00
XCS4N   KV,$X12,XCSZ12-TEST X12 FOR RIGHT PATTERN              21763.30 90        021473.40
        SIC,SEN                                                1310.00 80         021474.00
                BZXEZ,SERS-0-24 MUST BE SAME TO CONT.          1304.32 C4         021474.40
        KC,$X12,XCSZ16-28-45 MUST BE SAME TO CONT.             21766.31 90        021475.00
        SIC,SEN                                                1310.00 80         021475.40
                BZXE,SERS                                      1304.32 C0         021476.00
        SR,$X12,XCSZ5-REFILL TO WORK AREA                      21756.31 70        021476.40
        SIC,SEN                                                1310.00 80         021477.00
                BXF,SERS-XF NOT 0 AS IT SHD BE %25¤            1304.23 42         021477.40
        LC,$X12,XCSZ5-REFILL INTO COUNT FIELD                  21756.30 50        021500.00
        KC,$X12,XCSZ17-ACTUALLY 46-63 FROM REFILL              21766.71 90        021500.40
        SIC,SEN                                                1310.00 80         021501.00
                BZXE,SERS-PATTERN MUST BE SAME TO CONT.        1304.32 C0         021501.40
        LX,$X12,XCSZ12-RESTORE IX REG TO INITIAL COND          21763.30 10        021502.00
        NOP,0                                                  0.30 00            021502.40
                NOP,0                                          0.30 00            021503.00
XCS4P   LX,$X13,XCSZ12                    -REINITIALIZE X13     21763.32 10        021503.40
        KV,$X13,XCSZ12                    -TEST X13 FOR RIGHT PATTERN  21763.32 90  021504.00
        SIC,SEN                                                1310.00 80         021504.40
                BZXEZ,SERS-0-24 MUST BE IDENTICAL TO CONT.     1304.32 C4         021505.00
        KC,$X13,XCSZ16-28-45 MUST BE IDENT. TO CONT            21766.33 90        021505.40
        SIC,SEN                                                1310.00 80         021506.00
                BZXE,SERS                                      1304.32 C0         021506.40
        SR,$X13,XCSZ5-REFILL FLD TO WORK AREA                  21756.33 70        021507.00
        SIC,SEN                                                1310.00 80         021507.40
                BXF,SERS-XF NOT 0 AS IT SHD BE %25¤            1304.23 42         021510.00
        LC,$X13,XCSZ5-REFILL INTO COUNT FIELD                  21756.32 50        021510.40
        KC,$X13,XCSZ17-ACTUALLY 46-63 FROM REFILL              21766.73 90        021511.00
        SIC,SEN                                                1310.00 80         021511.40
                BZXE,SERS-PATTERN MUST BE SAME TO CONT.        1304.32 C0         021512.00
        LX,$X13,XCSZ12-RESTORE IX REG TO INITIAL COND.         21763.32 10        021512.40
        NOP,0                                                  0.30 00            021513.00
                NOP,0                                          0.30 00            021513.40
XCS4Q   KV,$X14,XCSZ12-TEST X14 FOR RIGHT PATTERN              21763.34 90        021514.00
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             SIC,SEN                                              1310.00 80              021514.40
                 BZXEZ,SERS-0-24 MUST BE SAME TO CONT.            1304.32 C4              021515.00
             KC,$X14,XCSZ16-28-45 MUST BE SAME TO CONT.           21766.35 90             021515.40
             SIC,SEN                                              1310.00 80              021516.00
                 BZXE,SERS                                        1304.32 C0              021516.40
             SR,$X14,XCSZ5-REFILL TO WORK AREA                    21756.35 70             021517.00
             SIC,SEN                                              1310.00 80              021517.40
                 BXF,SERS-XF NOT 0 AS IT SHD BE %25¤              1304.23 42              021520.00
             LC,$X14,XCSZ5-REFILL INTO COUNT FIELD                21756.34 50             021520.40
             KC,$X14,XCSZ17-ACTUALLY 46-63 FROM REFILL            21766.75 90             021521.00
             SIC,SEN                                              1310.00 80              021521.40
                 BZXE,SERS-PATTERN MUST BE SAME TO CONT.          1304.32 C0              021522.00
             LX,$X14,XCSZ12-RESTORE IX REG TO INITIAL COND        21763.34 10             021522.40
             NOP,0                                                0.30 00                 021523.00
                 NOP,0                                            0.30 00                 021523.40
XCS4R        KV,$X15,XCSZ12-TEST X15 FOR RIGHT PATTERN            21763.36 90             021524.00
             SIC,SEN                                              1310.00 80              021524.40
                 BZXEZ,SERS-0-24 MUST BE IDENTICAL TO CONT.       1304.32 C4              021525.00
             KC,$X15,XCSZ16-28-45 MUST BE IDENT. TO CONT          21766.37 90             021525.40
             SIC,SEN                                              1310.00 80              021526.00
                 BZXE,SERS                                        1304.32 C0              021526.40
             SR,$X15,XCSZ5-REFILL FLD TO WORK AREA                21756.37 70             021527.00
             SIC,SEN                                              1310.00 80              021527.40
                 BXF,SERS-XF NOT 0 AS IT SHD BE %25¤              1304.23 42              021530.00
             LC,$X15,XCSZ5-REFILL INTO COUNT FIELD                21756.36 50             021530.40
             KC,$X15,XCSZ17-ACTUALLY 46-63 FROM REFILL            21766.77 90             021531.00
             SIC,SEN                                              1310.00 80              021531.40
                 BZXE,SERS-PATTERN MUST BE SAME TO CONT.          1304.32 C0              021532.00
             LX,$X15,XCSZ12-RESTORE IX REG TO INITIAL COND.       21763.36 10             021532.40
             NOP,0                                                0.30 00                 021533.00
                 NOP,0                                            0.30 00                 021533.40
             B,$+1.0                                              21535.10 00             021534.00
                 B,XCS4-LOOP IN ALL REG. B PATTERN TEST           21323.50 00             021534.40
             SIC,SEN0+.32                                         1311.40 80              021535.00
                 B,SSW                                            1301.10 00              021535.40
XCS5         LX,$X0,XCSZ13                                        21764.00 10             021536.00
                 LX,$X1,XCSZ13-INITIALIZE BY SETTING              21764.02 10             021536.40
             LX,$X2,XCSZ13                                        21764.04 10             021537.00
                 LX,$X3,XCSZ13-PATTERN C IN ALL IX                21764.06 10             021537.40
             LX,$X4,XCSZ13                                        21764.10 10             021540.00
                 LX,$X5,XCSZ13-REGS. LEFT HALF                    21764.12 10             021540.40
             LX,$X6,XCSZ13                                        21764.14 10             021541.00
                 LX,$X7,XCSZ13-PARITYS ARE ZERO                   21764.16 10             021541.40
             LX,$X8,XCSZ13                                        21764.20 10             021542.00
                 LX,$X9,XCSZ13-RIGHT HALF PARITYS                 21764.22 10             021542.40
             LX,$X10,XCSZ13                                       21764.24 10             021543.00
                 LX,$X11,XCSZ13-ARE ONES                          21764.26 10             021543.40
             LX,$X12,XCSZ13                                       21764.30 10             021544.00
                 LX,$X13,XCSZ13-P ERRS FOUND BY CKTS              21764.32 10             021544.40
             LX,$X14,XCSZ13                                       21764.34 10             021545.00
                 LX,$X15,XCSZ13-PATTERN ERRS BY PROG.             21764.36 10             021545.40
XCS5A        KV,$X0,XCSZ13-TEST X0 FOR RIGHT PATTERN              21764.00 90             021546.00
             SIC,SEN                                              1310.00 80              021546.40
                 BZXEZ,SERS-0-24 MUST BE SAME TO CONT.            1304.32 C4              021547.00
             KC,$X0,XCSZ18-28-45 MUST BE SAME TO CONT.            21767.01 90             021547.40
             SIC,SEN                                              1310.00 80              021550.00
                 BZXE,SERS                                        1304.32 C0              021550.40
             SR,$X0,XCSZ5-REFILL TO WORK AREA                     21756.01 70             021551.00
             SIC,SEN                                              1310.00 80              021551.40
                 BXF,SERS-XF NOT 0 AS IT SHD BE %25¤              1304.23 42              021552.00
             LC,$X0,XCSZ5-REFILL INTO COUNT FIELD                 21756.00 50             021552.40
             KC,$X0,XCSZ19-ACTUALLY 46-63 FROM REFILL             21767.41 90             021553.00
             SIC,SEN                                              1310.00 80              021553.40
                 BZXE,SERS-PATTERN MUST BE SAME TO CONT.          1304.32 C0              021554.00
             LX,$X0,XCSZ13-RESTORE IX REG TO INITIAL COND         21764.00 10             021554.40
             NOP,0                                                0.30 00                 021555.00
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                NOP,0                                                      0.30 00              021555.40
XCS5B    KV,$X1,XCSZ13-TEST X1 FOR RIGHT PATTERN                          21764.02 90          021556.00
         SIC,SEN                                                          1310.00 80           021556.40
                BZXEZ,SERS-0-24 MUST BE IDENTICAL TO CONT.                1304.32 C4           021557.00
         KC,$X1,XCSZ18-28-45 MUST BE IDENT. TO CONT                       21767.03 90          021557.40
         SIC,SEN                                                          1310.00 80           021560.00
                BZXE,SERS                                                 1304.32 C0           021560.40
         SR,$X1,XCSZ5-REFILL FLD TO WORK AREA                             21756.03 70          021561.00
         SIC,SEN                                                          1310.00 80           021561.40
                BXF,SERS-XF NOT 0 AS IT SHD BE %25¤                       1304.23 42           021562.00
         LC,$X1,XCSZ5-REFILL INTO COUNT FIELD                             21756.02 50          021562.40
         KC,$X1,XCSZ19-ACTUALLY 46-63 FROM REFILL                         21767.43 90          021563.00
         SIC,SEN                                                          1310.00 80           021563.40
                BZXE,SERS-PATTERN MUST BE SAME TO CONT.                   1304.32 C0           021564.00
         LX,$X1,XCSZ13-RESTORE IX REG TO INITIAL COND.                    21764.02 10          021564.40
         NOP,0                                                            0.30 00              021565.00
                NOP,0                                                     0.30 00              021565.40
XCS5C    KV,$X2,XCSZ13-TEST X2 FOR RIGHT PATTERN                          21764.04 90          021566.00
         SIC,SEN                                                          1310.00 80           021566.40
                BZXEZ,SERS-0-24 MUST BE SAME TO CONT.                     1304.32 C4           021567.00
         KC,$X2,XCSZ18-28-45 MUST BE SAME TO CONT.                        21767.05 90          021567.40
         SIC,SEN                                                          1310.00 80           021570.00
                BZXE,SERS                                                 1304.32 C0           021570.40
         SR,$X2,XCSZ5-REFILL TO WORK AREA                                 21756.05 70          021571.00
         SIC,SEN                                                          1310.00 80           021571.40
                BXF,SERS-XF NOT 0 AS IT SHD BE %25¤                       1304.23 42           021572.00
         LC,$X2,XCSZ5-REFILL INTO COUNT FIELD                             21756.04 50          021572.40
         KC,$X2,XCSZ19-ACTUALLY 46-63 FROM REFILL                         21767.45 90          021573.00
         SIC,SEN                                                          1310.00 80           021573.40
                BZXE,SERS-PATTERN MUST BE SAME TO CONT.                   1304.32 C0           021574.00
         LX,$X2,XCSZ13-RESTORE IX REG TO INITIAL COND                     21764.04 10          021574.40
         NOP,0                                                            0.30 00              021575.00
                NOP,0                                                     0.30 00              021575.40
XCS5D    KV,$X3,XCSZ13-TEST X3 FOR RIGHT PATTERN                          21764.06 90          021576.00
         SIC,SEN                                                          1310.00 80           021576.40
                BZXEZ,SERS-0-24 MUST BE IDENTICAL TO CONT.                1304.32 C4           021577.00
         KC,$X3,XCSZ18-28-45 MUST BE IDENT. TO CONT                       21767.07 90          021577.40
         SIC,SEN                                                          1310.00 80           021600.00
                BZXE,SERS                                                 1304.32 C0           021600.40
         SR,$X3,XCSZ5-REFILL FLD TO WORK AREA                             21756.07 70          021601.00
         SIC,SEN                                                          1310.00 80           021601.40
                BXF,SERS-XF NOT 0 AS IT SHD BE %25¤                       1304.23 42           021602.00
         LC,$X3,XCSZ5-REFILL INTO COUNT FIELD                             21756.06 50          021602.40
         KC,$X3,XCSZ19-ACTUALLY 46-63 FROM REFILL                         21767.47 90          021603.00
         SIC,SEN                                                          1310.00 80           021603.40
                BZXE,SERS-PATTERN MUST BE SAME TO CONT.                   1304.32 C0           021604.00
         LX,$X3,XCSZ13-RESTORE IX REG TO INITIAL COND.                    21764.06 10          021604.40
         NOP,0                                                            0.30 00              021605.00
                NOP,0                                                     0.30 00              021605.40
XCS5E    KV,$X4,XCSZ13-TEST X4 FOR RIGHT PATTERN                          21764.10 90          021606.00
         SIC,SEN                                                          1310.00 80           021606.40
                BZXEZ,SERS-0-24 MUST BE SAME TO CONT.                     1304.32 C4           021607.00
         KC,$X4,XCSZ18-28-45 MUST BE SAME TO CONT.                        21767.11 90          021607.40
         SIC,SEN                                                          1310.00 80           021610.00
                BZXE,SERS                                                 1304.32 C0           021610.40
         SR,$X4,XCSZ5-REFILL TO WORK AREA                                 21756.11 70          021611.00
         SIC,SEN                                                          1310.00 80           021611.40
                BXF,SERS-XF NOT 0 AS IT SHD BE %25¤                       1304.23 42           021612.00
         LC,$X4,XCSZ5-REFILL INTO COUNT FIELD                             21756.10 50          021612.40
         KC,$X4,XCSZ19-ACTUALLY 46-63 FROM REFILL                         21767.51 90          021613.00
         SIC,SEN                                                          1310.00 80           021613.40
                BZXE,SERS-PATTERN MUST BE SAME TO CONT.                   1304.32 C0           021614.00
         LX,$X4,XCSZ13-RESTORE IX REG TO INITIAL COND                     21764.10 10          021614.40
         NOP,0                                                            0.30 00              021615.00
                NOP,0                                                     0.30 00              021615.40
XCS5F    KV,$X5,XCSZ13-TEST X5 FOR RIGHT PATTERN                          21764.12 90          021616.00
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        SIC,SEN                                                      1310.00 80        021616.40
              BZXEZ,SERS-0-24 MUST BE IDENTICAL TO CONT.             1304.32 C4        021617.00
        KC,$X5,XCSZ18-28-45 MUST BE IDENT. TO CONT                  21767.13 90        021617.40
        SIC,SEN                                                      1310.00 80        021620.00
              BZXE,SERS                                              1304.32 C0        021620.40
        SR,$X5,XCSZ5-REFILL FLD TO WORK AREA                        21756.13 70        021621.00
        SIC,SEN                                                      1310.00 80        021621.40
              BXF,SERS-XF NOT 0 AS IT SHD BE %25¤                    1304.23 42        021622.00
        LC,$X5,XCSZ5-REFILL INTO COUNT FIELD                        21756.12 50        021622.40
        KC,$X5,XCSZ19-ACTUALLY 46-63 FROM REFILL                    21767.53 90        021623.00
        SIC,SEN                                                      1310.00 80        021623.40
              BZXE,SERS-PATTERN MUST BE SAME TO CONT.               1304.32 C0        021624.00
        LX,$X5,XCSZ13-RESTORE IX REG TO INITIAL COND.              21764.12 10        021624.40
        NOP,0                                                           0.30 00        021625.00
              NOP,0                                                     0.30 00        021625.40
XCS5G   KV,$X6,XCSZ13-TEST X6 FOR RIGHT PATTERN                     21764.14 90        021626.00
        SIC,SEN                                                      1310.00 80        021626.40
              BZXEZ,SERS-0-24 MUST BE SAME TO CONT.                 1304.32 C4        021627.00
        KC,$X6,XCSZ18-28-45 MUST BE SAME TO CONT.                   21767.15 90        021627.40
        SIC,SEN                                                      1310.00 80        021630.00
              BZXE,SERS                                              1304.32 C0        021630.40
        SR,$X6,XCSZ5-REFILL TO WORK AREA                            21756.15 70        021631.00
        SIC,SEN                                                      1310.00 80        021631.40
              BXF,SERS-XF NOT 0 AS IT SHD BE %25¤                    1304.23 42        021632.00
        LC,$X6,XCSZ5-REFILL INTO COUNT FIELD                        21756.14 50        021632.40
        KC,$X6,XCSZ19-ACTUALLY 46-63 FROM REFILL                    21767.55 90        021633.00
        SIC,SEN                                                      1310.00 80        021633.40
              BZXE,SERS-PATTERN MUST BE SAME TO CONT.               1304.32 C0        021634.00
        LX,$X6,XCSZ13-RESTORE IX REG TO INITIAL COND                21764.14 10        021634.40
        NOP,0                                                           0.30 00        021635.00
              NOP,0                                                     0.30 00        021635.40
XCS5H   KV,$X7,XCSZ13-TEST X7 FOR RIGHT PATTERN                     21764.16 90        021636.00
        SIC,SEN                                                      1310.00 80        021636.40
              BZXEZ,SERS-0-24 MUST BE IDENTICAL TO CONT.             1304.32 C4        021637.00
        KC,$X7,XCSZ18-28-45 MUST BE IDENT. TO CONT                  21767.17 90        021637.40
        SIC,SEN                                                      1310.00 80        021640.00
              BZXE,SERS                                              1304.32 C0        021640.40
        SR,$X7,XCSZ5-REFILL FLD TO WORK AREA                        21756.17 70        021641.00
        SIC,SEN                                                      1310.00 80        021641.40
              BXF,SERS-XF NOT 0 AS IT SHD BE %25¤                    1304.23 42        021642.00
        LC,$X7,XCSZ5-REFILL INTO COUNT FIELD                        21756.16 50        021642.40
        KC,$X7,XCSZ19-ACTUALLY 46-63 FROM REFILL                    21767.57 90        021643.00
        SIC,SEN                                                      1310.00 80        021643.40
              BZXE,SERS-PATTERN MUST BE SAME TO CONT.               1304.32 C0        021644.00
        LX,$X7,XCSZ13-RESTORE IX REG TO INITIAL COND.              21764.16 10        021644.40
        NOP,0                                                           0.30 00        021645.00
              NOP,0                                                     0.30 00        021645.40
XCS5J   KV,$X8,XCSZ13-TEST X8 FOR RIGHT PATTERN                     21764.20 90        021646.00
        SIC,SEN                                                      1310.00 80        021646.40
              BZXEZ,SERS-0-24 MUST BE SAME TO CONT.                 1304.32 C4        021647.00
        KC,$X8,XCSZ18-28-45 MUST BE SAME TO CONT.                   21767.21 90        021647.40
        SIC,SEN                                                      1310.00 80        021650.00
              BZXE,SERS                                              1304.32 C0        021650.40
        SR,$X8,XCSZ5-REFILL TO WORK AREA                            21756.21 70        021651.00
        SIC,SEN                                                      1310.00 80        021651.40
              BXF,SERS-XF NOT 0 AS IT SHD BE %25¤                    1304.23 42        021652.00
        LC,$X8,XCSZ5-REFILL INTO COUNT FIELD                        21756.20 50        021652.40
        KC,$X8,XCSZ19-ACTUALLY 46-63 FROM REFILL                    21767.61 90        021653.00
        SIC,SEN                                                      1310.00 80        021653.40
              BZXE,SERS-PATTERN MUST BE SAME TO CONT.               1304.32 C0        021654.00
        LX,$X8,XCSZ13-RESTORE IX REG TO INITIAL COND                21764.20 10        021654.40
        NOP,0                                                           0.30 00        021655.00
              NOP,0                                                     0.30 00        021655.40
XCS5K   KV,$X9,XCSZ13-TEST X9 FOR RIGHT PATTERN                     21764.22 90        021656.00
        SIC,SEN                                                      1310.00 80        021656.40
              BZXEZ,SERS-0-24 MUST BE IDENTICAL TO CONT.             1304.32 C4        021657.00
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        KC,$X9,XCSZ18-28-45 MUST BE IDENT. TO CONT           21767.23 90         021657.40
        SIC,SEN                                              1310.00 80          021660.00
              BZXE,SERS                                      1304.32 CO          021660.40
        SR,$X9,XCSZ5-REFILL FLD TO WORK AREA                 21756.23 70         021661.00
        SIC,SEN                                              1310.00 80          021661.40
              BXF,SERS-XF NOT 0 AS IT SHD BE %25¤            1304.23 42          021662.00
        LC,$X9,XCSZ5-REFILL INTO COUNT FIELD                 21756.22 50         021662.40
        KC,$X9,XCSZ19-ACTUALLY 46-63 FROM REFILL             21767.63 90         021663.00
        SIC,SEN                                              1310.00 80          021663.40
              BZXE,SERS-PATTERN MUST BE SAME TO CONT.        1304.32 CO          021664.00
        LX,$X9,XCSZ13-RESTORE IX REG TO INITIAL COND.        21764.22 10         021664.40
        NOP,0                                                0.30 00             021665.00
              NOP,0                                          0.30 00             021665.40
XCS5L   KV,$X10,XCSZ13-TEST X10 FOR RIGHT PATTERN            21764.24 90         021666.00
        SIC,SEN                                              1310.00 80          021666.40
              BZXEZ,SERS-0-24 MUST BE SAME TO CONT.          1304.32 C4          021667.00
        KC,$X10,XCSZ18-28-45 MUST BE SAME TO CONT.           21767.25 90         021667.40
        SIC,SEN                                              1310.00 80          021670.00
              BZXE,SERS                                      1304.32 CO          021670.40
        SR,$X10,XCSZ5-REFILL TO WORK AREA                    21756.25 70         021671.00
        SIC,SEN                                              1310.00 80          021671.40
              BXF,SERS-XF NOT 0 AS IT SHD BE %25¤            1304.23 42          021672.00
        LC,$X10,XCSZ5-REFILL INTO COUNT FIELD                21756.24 50         021672.40
        KC,$X10,XCSZ19-ACTUALLY 46-63 FROM REFILL            21767.65 90         021673.00
        SIC,SEN                                              1310.00 80          021673.40
              BZXE,SERS-PATTERN MUST BE SAME TO CONT.        1304.32 CO          021674.00
        LX,$X10,XCSZ13-RESTORE IX REG TO INITIAL COND        21764.24 10         021674.40
        NOP,0                                                0.30 00             021675.00
              NOP,0                                          0.30 00             021675.40
XCS5M   KV,$X11,XCSZ13-TEST X11 FOR RIGHT PATTERN            21764.26 90         021676.00
        SIC,SEN                                              1310.00 80          021676.40
              BZXEZ,SERS-0-24 MUST BE IDENTICAL TO CONT.     1304.32 C4          021677.00
        KC,$X11,XCSZ18-28-45 MUST BE IDENT. TO CONT          21767.27 90         021677.40
        SIC,SEN                                              1310.00 80          021700.00
              BZXE,SERS                                      1304.32 CO          021700.40
        SR,$X11,XCSZ5-REFILL FLD TO WORK AREA                21756.27 70         021701.00
        SIC,SEN                                              1310.00 80          021701.40
              BXF,SERS-XF NOT 0 AS IT SHD BE %25¤            1304.23 42          021702.00
        LC,$X11,XCSZ5-REFILL INTO COUNT FIELD                21756.26 50         021702.40
        KC,$X11,XCSZ19-ACTUALLY 46-63 FROM REFILL            21767.67 90         021703.00
        SIC,SEN                                              1310.00 80          021703.40
              BZXE,SERS-PATTERN MUST BE SAME TO CONT.        1304.32 CO          021704.00
        LX,$X11,XCSZ13-RESTORE IX REG TO INITIAL COND.       21764.26 10         021704.40
        NOP,0                                                0.30 00             021705.00
              NOP,0                                          0.30 00             021705.40
XCS5N   KV,$X12,XCSZ13-TEST X12 FOR RIGHT PATTERN            21764.30 90         021706.00
        SIC,SEN                                              1310.00 80          021706.40
              BZXEZ,SERS-0-24 MUST BE SAME TO CONT.          1304.32 C4          021707.00
        KC,$X12,XCSZ18-28-45 MUST BE SAME TO CONT.           21767.31 90         021707.40
        SIC,SEN                                              1310.00 80          021710.00
              BZXE,SERS                                      1304.32 CO          021710.40
        SR,$X12,XCSZ5-REFILL TO WORK AREA                    21756.31 70         021711.00
        SIC,SEN                                              1310.00 80          021711.40
              BXF,SERS-XF NOT 0 AS IT SHD BE %25¤            1304.23 42          021712.00
        LC,$X12,XCSZ5-REFILL INTO COUNT FIELD                21756.30 50         021712.40
        KC,$X12,XCSZ19-ACTUALLY 46-63 FROM REFILL            21767.71 90         021713.00
        SIC,SEN                                              1310.00 80          021713.40
              BZXE,SERS-PATTERN MUST BE SAME TO CONT.        1304.32 CO          021714.00
        LX,$X12,XCSZ13-RESTORE IX REG TO INITIAL COND        21764.30 10         021714.40
        NOP,0                                                0.30 00             021715.00
              NOP,0                                          0.30 00             021715.40
XCS5P   LX,$X13,XCSZ13              -REINITIALIZE X13         21764.32 10         021716.00
        KV,$X13,XCSZ13              -TEST X13 FOR RIGHT PATTERN   21764.32 90     021716.40
        SIC,SEN                                              1310.00 80          021717.00
              BZXEZ,SERS-0-24 MUST BE IDENTICAL TO CONT.     1304.32 C4          021717.40
        KC,$X13,XCSZ18-28-45 MUST BE IDENT. TO CONT          21767.33 90         021720.00
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                SIC,SEN                                        1310.00 80                          021720.40
                    BZXE,SERS                                  1304.32 C0                          021721.00
            SR,$X13,XCSZ5-REFILL FLD TO WORK AREA             21756.33 70                          021721.40
                SIC,SEN                                        1310.00 80                          021722.00
                    BXF,SERS-XF NOT 0 AS IT SHD BE %25¤        1304.23 42                          021722.40
            LC,$X13,XCSZ5-REFILL INTO COUNT FIELD             21756.32 50                          021723.00
            KC,$X13,XCSZ19-ACTUALLY 46-63 FROM REFILL         21767.73 90                          021723.40
                SIC,SEN                                        1310.00 80                          021724.00
                    BZXE,SERS-PATTERN MUST BE SAME TO CONT.    1304.32 C0                          021724.40
            LX,$X13,XCSZ13-RESTORE IX REG TO INITIAL COND.    21764.32 10                          021725.00
            NOP,0                                              0.30 00                             021725.40
                NOP,0                                          0.30 00                             021726.00
XCS5Q       KV,$X14,XCSZ13-TEST X14 FOR RIGHT PATTERN         21764.34 90                          021726.40
                SIC,SEN                                        1310.00 80                          021727.00
                    BZXEZ,SERS-0-24 MUST BE SAME TO CONT.      1304.32 C4                          021727.40
            KC,$X14,XCSZ18-28-45 MUST BE SAME TO CONT.        21767.35 90                          021730.00
                SIC,SEN                                        1310.00 80                          021730.40
                    BZXE,SERS                                  1304.32 C0                          021731.00
            SR,$X14,XCSZ5-REFILL TO WORK AREA                 21756.35 70                          021731.40
                SIC,SEN                                        1310.00 80                          021732.00
                    BXF,SERS-XF NOT 0 AS IT SHD BE %25¤        1304.23 42                          021732.40
            LC,$X14,XCSZ5-REFILL INTO COUNT FIELD             21756.34 50                          021733.00
            KC,$X14,XCSZ19-ACTUALLY 46-63 FROM REFILL         21767.75 90                          021733.40
                SIC,SEN                                        1310.00 80                          021734.00
                    BZXE,SERS-PATTERN MUST BE SAME TO CONT.    1304.32 C0                          021734.40
            LX,$X14,XCSZ13-RESTORE IX REG TO INITIAL COND     21764.34 10                          021735.00
            NOP,0                                              0.30 00                             021735.40
                NOP,0                                          0.30 00                             021736.00
XCS5R       KV,$X15,XCSZ13-TEST X15 FOR RIGHT PATTERN         21764.36 90                          021736.40
                SIC,SEN                                        1310.00 80                          021737.00
                    BZXEZ,SERS-0-24 MUST BE IDENTICAL TO CONT. 1304.32 C4                          021737.40
            KC,$X15,XCSZ18-28-45 MUST BE IDENT. TO CONT       21767.37 90                          021740.00
                SIC,SEN                                        1310.00 80                          021740.40
                    BZXE,SERS                                  1304.32 C0                          021741.00
            SR,$X15,XCSZ5-REFILL FLD TO WORK AREA             21756.37 70                          021741.40
                SIC,SEN                                        1310.00 80                          021742.00
                    BXF,SERS-XF NOT 0 AS IT SHD BE %25¤        1304.23 42                          021742.40
            LC,$X15,XCSZ5-REFILL INTO COUNT FIELD             21756.36 50                          021743.00
            KC,$X15,XCSZ19-ACTUALLY 46-63 FROM REFILL         21767.77 90                          021743.40
                SIC,SEN                                        1310.00 80                          021744.00
                    BZXE,SERS-PATTERN MUST BE SAME TO CONT.    1304.32 C0                          021744.40
            LX,$X15,XCSZ13-RESTORE IX REG TO INITIAL COND.    21764.36 10                          021745.00
            NOP,0                                              0.30 00                             021745.40
                NOP,0                                          0.30 00                             021746.00
            B,$+1,0                                            21747.50 00                          021746.40
                    B,XCS5-LOOP IN ALL REG. C PATTERN TEST     21536.10 00                          021747.00
            SIC,SEN0+.32                                       1311.40 80                          021747.40
                    B,SSW                                      1301.10 00                          021750.00
                B,XCS6                                         22026.10 00                          021750.40
                    NOP,0                                      0.30 00                             021751.00
XCSZ0       XW,0,0,0                                           0.00 00 000000.00 00                 021752.00
XCSZ1       %8¤DD%BU,64,1¤,17777777777777777777-ALL ONES DATA WORD    17777777777777777777         021753.00
XCSZ2       %8¤DD%BU,64,1¤,00000000000000000000-ALL ZEROS DATA WORD   00000000000000000000         021754.00
XCSZ3       %8¤DD%BU,32,1¤,37777777600        -25 ONES IN A HALF WORD            37777777600       021755.00
XCSZ4       %8¤DD%BU,32,1¤,00000000000        -HALF WORD OF ZEROS                00000000000       021755.40
XCSZ5       %8¤DD%BU,32,8¤,00000000000        -HALF WD WORK AREA                 00000000000       021756.00
XCSZ6       %8¤DD%BU,32,8¤,00000000000        -HALF WD WORK AREA                 00000000000       021756.40
XCSZ7       %8¤DD%BU,32,8¤,00000040060        -INSTR HALF WD, LV, 1              00000040060       021757.00
            %8¤DD%BU,32,8¤,37777754000        -INSTR HALF WD,NOP,-1              37777754000       021757.40
XCSZ8       VF,XCSZ7                                           21757.00+                           021760.00
XCSZ9       VF,XCSZ8                                           21760.00+                           021760.40
XCSZ10      SIC,SEN                                            1310.00 80                          021761.00
                    B,SERS                                     1304.10 00                          021761.40
XCSZ11      %8¤DD%BU,64,1¤,07417036074170360741707-PATTERN ALL P ARE 0 %A¤      07417036074170360741707  021762.00
XCSZ12      %8¤DD%BU,64,1¤,03146314631434167146737-LEFT P ARE 1, RT P ARE 0     03146314631434167146737  021763.00
XCSZ13      %8¤DD%BU,64,1¤,01463346335463146314637-LEFT P ARE 0, RT P ARE 1     01463346335463146314637  021764.00
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XCSZ14   %8¤DD%BU,32,8¤,20741700000     -%A¤ COUNT COMP FIELD              20741700000        021765.00
XCSZ15   %8¤DD%BU,32,8¤,03607400000     -%A¤ REFILL COMP FIELD             03607400000        021765.40
XCSZ16   %8¤DD%BU,32,8¤,06160700000        -%B¤ COUNT COMP FIELD           06160700000        021766.00
XCSZ17   %8¤DD%BU,32,8¤,34633540000     -%B¤ REFILL COMP FIELD             34633540000        021766.40
XCSZ18   %8¤DD%BU,32,8¤,26314600000     -%C¤ COUNT COMP FIELD              26314600000        021767.00
XCSZ19   %8¤DD%BU,32,8¤,31463140000     -%C¤ REFILL COMP FIELD             31463140000        021767.40
XCSZ20   %8¤DD%BU,64,8¤, 12525252525252525252 -PATTERN D 10101 XF IS   12525252525252525252   021770.00
XCSZ21   %8¤DD%BU,64,8¤, 05252525252525252525 -PATTERN E 01010 XD IS   05252525252525252525   021771.00
XCSZ22   %8¤DD%BU,32,8¤,25252525200       -COMP HALF WD 101010            25252525200        021772.00
XCSZ23   %8¤DD%BU,32,8¤, 12525252400               -COMP HALF WD 01010    12525252400        021772.40
XCSZ24   %8¤DD%BU,64,8¤, 00000000000000000040024 -ZERO WD WITH SYNCH BIT 00000000000000000040024  021773.00
XCSZ25   %8¤DD%BU,64,8¤, 10000000000000000000000 -NON SYNCH ZERO WD   10000000000000000000000  021774.00
XCSZ26   %8¤DD%BU,64,8¤, 07777777777777777777 -SYNCH ONES WD           07777777777777777777   021775.00
XCSZ27   %8¤DD%BU,32,8¤, 17777777600           -COMP FLD SYNCH ONES WD      17777777600      021776.00
XCSZ28   %8¤DD%BU,32,8¤, 00000000000           -ZERO HALF WORD              00000000000      021776.40
XCSZ29   %8¤DD%BU,64,8¤,00000000000000000000377 -EIGHT ONES          00000000000000000000377  021777.00
XCSZ30   %8¤DD%BU,64,8¤,00000000000000000177777 -SIXTEEN ONES        00000000000000000177777  022000.00
XCSZ31   %8¤DD%BU,64,8¤,00000000000000077777777 -TWENTY-FOUR ONES    00000000000000077777777  022001.00
XCSZ32   %8¤DD%BU,64,8¤,00000000000037777777777 -THIRTY-TWO ONES     00000000000037777777777  022002.00
XCSZ33   %8¤DD%BU,64,8¤,00000000017777777777777 -FORTY ONES          00000000017777777777777  022003.00
XCSZ34   %8¤DD%BU,64,8¤,777 777 777 777 777 7                        00000077777777777777777  022004.00
XCSZ35   %8¤DD%BU,64,8¤,00003777777777777777777 -FIFTY-SIX ONES      00003777777777777777777  022005.00
XCSZ36   %8¤DD%BU,32,8¤,00017740000 -EIGHT ONES                          00017740000       022006.00
XCSZ37   %8¤DD%BU,32,8¤,07777740000 -SIXTEEN ONES                         07777740000       022006.40
XCSZ38   %8¤DD%BU,32,8¤,37777740000 -EIGHTEEN ONES                        37777740000       022007.00
XCSZ39   %8¤DD%BU,32,8¤,00003740000 -SIX ONES                             00003740000       022007.40
XCSZ40   %8¤DD%BU,32,8¤,01777740000 -FOURTEEN ONES                        01777740000       022010.00
XCSZ41   %8¤DD%BU,32,8¤,00000000200 -ONE ONE                              00000000200       022010.40
XCSZ42   %8¤DD%BU,32,8¤,00000177600 -NINE ONES                            00000177600       022011.00
XCSZ43   %8¤DD%BU,32,8¤,00007777600 -SEVENTEEN ONES                       00007777600       022011.40
XCSZA1   %8¤DD%BU,64,8¤, 16374763717576374763 -XTK-A,XF0               16374763717576374763   022012.00
XCSZA2   %8¤DD%BU,32,8¤, 36771740000           -XTK-A C COMP FLD            36771740000      022013.00
XCSZA3   %8¤DD%BU,32,8¤, 23707140000           -XTK-A R COMP FLD            23707140000      022013.40
XCSZB1   %8¤DD%BU,64,8¤, 13717637171747717476 37 -XTK-B,XF1            13717637171747717476 37 022014.00
XCSZB2   %8¤DD%BU,32,8¤, 07637440000           -XTK-B C COMP FLD            07637440000      022015.00
XCSZB3   %8¤DD%BU,32,8¤, 36371740000           -XTK-B R COMP FLD            36371740000      022015.40
XCSZC1   %8¤DD%BU,64,8¤, 07277572275753767737172 -XTK-C,XF1           07277572275753767737172  022016.00
XCSZC2   %8¤DD%BU,32,8¤, 36577340000           -XTK-C C COMP FLD            36577340000      022017.00
XCSZC3   %8¤DD%BU,32,8¤, 35747500000           -XTK-C R COMPFLD             35747500000      022017.40
XCSZD1   %8¤DD%BU,64,8¤, 15753777655375773365737 -XTK-D,XF1           15753777655375773365737  022020.00
XCSZD2   %8¤DD%BU,32,8¤, 25767740000           -XTK-D C COMP FLD            25767740000      022021.00
XCSZD3   %8¤DD%BU,32,8¤, 17275740000           -XTK-D R COMP FLD            17275740000      022021.40
XCSZE1   %8¤DD%BU,64,8¤, 17767747776773767722757 -XTK-E,XF1           17767747776773767722757  022022.00
XCSZE2   %8¤DD%BU,32,8¤, 33757700000           -XTK-E C COMP FLD            33757700000      022023.00
XCSZE3   %8¤DD%BU,32,8¤, 37536740000           -XTK-E R COMP FLD            37536740000      022023.40
XCSZF1   %8¤DD%BU,64,8¤, 17577375327677557517775 -XTK-F,XF0           17577375327677557517775  022024.00
XCSZF2.  %8¤DD%BU,32,8¤, 37376740000           -XTK-F C COMP FLD            37376740000      022025.00
XCSZF3   %8¤DD%BU,32,8¤, 24777640000           -XTK-F R COMP FLD            24777640000      022025.40
XCS6     LX,$X0,XCSZ1                                                 21753.00 10             022026.00
                  LX,$X1,XCSZ1     -INITIALIZE BY SETTING              21753.02 10             022026.40
         LX,$X2,XCSZ1                                                 21753.04 10             022027.00
                  LX,$X3,XCSZ1     -ALL IX REGS TO ONES.               21753.06 10             022027.40
         LX,$X4,XCSZ1                                                 21753.10 10             022030.00
                  LX,$X5,XCSZ1     -PREPARE FOR                       21753.12 10             022030.40
         LX,$X6,XCSZ1                                                 21753.14 10             022031.00
                  LX,$X7,XCSZ1     -HIGH ZERO TEST                    21753.16 10             022031.40
         LX,$X8,XCSZ1                                                 21753.20 10             022032.00
                  LX,$X9,XCSZ1     -%UNDISTURBED¤                     21753.22 10             022032.40
         LX,$X10,XCSZ1                                                21753.24 10             022033.00
                  LX,$X11,XCSZ1                                       21753.26 10             022033.40
         LX,$X12,XCSZ1                                                21753.30 10             022034.00
                  LX,$X13,XCSZ1                                       21753.32 10             022034.40
         LX,$X14,XCSZ1                                                21753.34 10             022035.00
                  LX,$X15,XCSZ1                                       21753.36 10             022035.40
XCS6A    LX,$X0,XCSZ1                                                 21753.00 10             022036.00
                  LX,$X0,XCSZ1     -LOAD WITH ONES N TIMES %0¤        21753.00 10             022036.40
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        LX,$X0,XCSZ1                                                        21753.00 10          022037.00
                    LX,$X0,XCSZ1                                            21753.00 10          022037.40
        LX,$X0,XCSZ1                                                        21753.00 10          022040.00
                    LX,$X0,XCSZ1                                            21753.00 10          022040.40
        LX,$X0,XCSZ1                                                        21753.00 10          022041.00
                    LX,$X0,XCSZ1                                            21753.00 10          022041.40
        LX,$X0,XCSZ1                                                        21753.00 10          022042.00
                    LX,$X0,XCSZ1                                            21753.00 10          022042.40
        LX,$X0,XCSZ1                                                        21753.00 10          022043.00
                    LX,$X0,XCSZ1                                            21753.00 10          022043.40
        LX,$X0,XCSZ1                                                        21753.00 10          022044.00
                    LX,$X0,XCSZ1                                            21753.00 10          022044.40
        LX,$X0,XCSZ1                                                        21753.00 10          022045.00
                    LX,$X0,XCSZ1                                            21753.00 10          022045.40
        LX,$X0,XCSZ1                                                        21753.00 10          022046.00
                    LX,$X0,XCSZ1                                            21753.00 10          022046.40
        LX,$X0,XCSZ1                                                        21753.00 10          022047.00
                    LX,$X0,XCSZ1                                            21753.00 10          022047.40
        LX,$X0,XCSZ2              -LOAD ONCE WITH ZEROS                     21754.00 10          022050.00
XCS6A1  KV,$X0,XCSZ2              -TEST BITS 0-24                           21754.00 90          022050.40
        SIC,SEN                                                             1310.00 80           022051.00
            BZXEZ,SERS            -ERR IF BIT PICKED UP/OR LOST             1304.32 C4           022051.40
        KC,$X0,XCSZ2              -TEST BITS 28-45                          21754.01 90          022052.00
        SIC,SEN                                                             1310.00 80           022052.40
            BZXE,SERS             -ERR IF IX BITS DONT COMPARE              1304.32 C0           022053.00
        SR,$X0,XCSZ5             -REFILL TO WORK AREA                       21756.01 70          022053.40
        SIC,SEN                                                             1310.00 80           022054.00
            BXF,SERS             -ERR IF XF NOT 0 AS IT SHOULD BE           1304.23 42           022054.40
      . LC,$X0,XCSZ5             -REFILL INTO COUNT FIELD                   21756.00 50          022055.00
        KC,$X0,XCSZ2             -TEST BITS 46-63                           21754.01 90          022055.40
        SIC,SEN                                                             1310.00 80           022056.00
            BZXE,SERS            -ERR IF BIT PICKED UP                      1304.32 C0           022056.40
        LX,$X0,XCSZ1                                                        21753.00 10          022057.00
                    NOP          -RESTORE IX REG.                           0.30 00              022057.40
        NOP,0                                                              0.30 00              022060.00
XCS6B   LX,$X1,XCSZ1                                                        21753.02 10          022060.40
                    LX,$X1,XCSZ1    -LOAD WITH ONES N TIMES %1o            21753.02 10          022061.00
        LX,$X1,XCSZ1                                                        21753.02 10          022061.40
                    LX,$X1,XCSZ1                                            21753.02 10          022062.00
        LX,$X1,XCSZ1                                                        21753.02 10          022062.40
                    LX,$X1,XCSZ1                                            21753.02 10          022063.00
        LX,$X1,XCSZ1                                                        21753.02 10          022063.40
                    LX,$X1,XCSZ1                                            21753.02 10          022064.00
        LX,$X1,XCSZ1                                                        21753.02 10          022064.40
                    LX,$X1,XCSZ1                                            21753.02 10          022065.00
        LX,$X1,XCSZ1                                                        21753.02 10          022065.40
                    LX,$X1,XCSZ1                                            21753.02 10          022066.00
        LX,$X1,XCSZ1                                                        21753.02 10          022066.40
                    LX,$X1,XCSZ1                                            21753.02 10          022067.00
        LX,$X1,XCSZ1                                                        21753.02 10          022067.40
                    LX,$X1,XCSZ1                                            21753.02 10          022070.00
        LX,$X1,XCSZ1                                                        21753.02 10          022070.40
                    LX,$X1,XCSZ1                                            21753.02 10          022071.00
        LX,$X1,XCSZ1                                                        21753.02 10          022071.40
                    LX,$X1,XCSZ1                                            21753.02 10          022072.00
        LX,$X1,XCSZ2             -LOAD ONCE WITH ZEROS                      21754.02 10          022072.40
XCS6B1  KV,$X1,XCSZ2             -TEST BITS 0-24                            21754.02 90          022073.00
        SIC,SEN                                                             1310.00 80           022073.40
            BZXEZ,SERS           -ERR IF BIT PICKED UP/OR LOST              1304.32 C4           022074.00
        KC,$X1,XCSZ2             -TEST BITS 28-45                           21754.03 90          022074.40
        SIC,SEN                                                             1310.00 80           022075.00
            BZXE,SERS            -ERR IF IX BITS DONT COMPARE               1304.32 C0           022075.40
        SR,$X1,XCSZ5            -REFILL TO WORK AREA                        21756.03 70          022076.00
        SIC,SEN                                                             1310.00 80           022076.40
            BXF,SERS             -ERR IF XF NOT 0 AS IT SHOULD BE           1304.23 42           022077.00
        LC,$X1,XCSZ5             -REFILL INTO COUNT FIELD                   21756.02 50          022077.40
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                KC,$X1,XCSZ2              -TEST BITS 46-63              21754.03 90        022100.00
                SIC,SEN                                                1310.00 80         022100.40
                        BZXE,SERS        -ERR IF BIT PICKED UP          1304.32 C0        022101.00
                LX,$X1,XCSZ1                                           21753.02 10        022101.40
                        NOP              -RESTORE IX REG.                  0.30 00        022102.00
                NOP,0                                                     0.30 00        022102.40
XCS6C   LX,$X2,XCSZ1                                                   21753.04 10        022103.00
                        LX,$X2,XCSZ1     -LOAD WITH ONES N TIMES %2¤   21753.04 10        022103.40
                LX,$X2,XCSZ1                                           21753.04 10        022104.00
                        LX,$X2,XCSZ1                                   21753.04 10        022104.40
                LX,$X2,XCSZ1                                           21753.04 10        022105.00
                        LX,$X2,XCSZ1                                   21753.04 10        022105.40
                LX,$X2,XCSZ1                                           21753.04 10        022106.00
                        LX,$X2,XCSZ1                                   21753.04 10        022106.40
                LX,$X2,XCSZ1                                           21753.04 10        022107.00
                        LX,$X2,XCSZ1                                   21753.04 10        022107.40
                LX,$X2,XCSZ1                                           21753.04 10        022110.00
                        LX,$X2,XCSZ1                                   21753.04 10        022110.40
                LX,$X2,XCSZ1                                           21753.04 10        022111.00
                        LX,$X2,XCSZ1                                   21753.04 10        022111.40
                LX,$X2,XCSZ1                                           21753.04 10        022112.00
                        LX,$X2,XCSZ1                                   21753.04 10        022112.40
                LX,$X2,XCSZ1                                           21753.04 10        022113.00
                        LX,$X2,XCSZ1                                   21753.04 10        022113.40
                LX,$X2,XCSZ1                                           21753.04 10        022114.00
                        LX,$X2,XCSZ1                                   21753.04 10        022114.40
                LX,$X2,XCSZ2             -LOAD ONCE WITH ZEROS         21754.04 10        022115.00
XCS6C1  KV,$X2,XCSZ2                     -TEST BITS 0-24               21754.04 90        022115.40
                SIC,SEN                                                1310.00 80         022116.00
                        BZXEZ,SERS       -ERR IF BIT PICKED UP/OR LOST  1304.32 C4        022116.40
                KC,$X2,XCSZ2             -TEST BITS 28-45              21754.05 90        022117.00
                SIC,SEN                                                1310.00 80         022117.40
                        BZXE,SERS        -ERR IF IX BITS DONT COMPARE   1304.32 C0        022120.00
                SR,$X2,XCSZ5            -REFILL TO WORK AREA           21756.05 70        022120.40
                SIC,SEN                                                1310.00 80         022121.00
                        BXF,SERS         -ERR IF XF NOT 0 AS IT SHOULD BE 1304.23 42      022121.40
                LC,$X2,XCSZ5           -REFILL INTO COUNT FIELD        21756.04 50        022122.00
                KC,$X2,XCSZ2            -TEST BITS 46-63              21754.05 90        022122.40
                SIC,SEN                                                1310.00 80         022123.00
                        BZXE,SERS        -ERR IF BIT PICKED UP          1304.32 C0        022123.40
                LX,$X2,XCSZ1                                           21753.04 10        022124.00
                        NOP              -RESTORE IX REG.                  0.30 00        022124.40
                NOP,0                                                     0.30 00        022125.00
XCS6D   LX,$X3,XCSZ1                                                   21753.06 10        022125.40
                        LX,$X3,XCSZ1     -LOAD WITH ONES N TIMES %3¤   21753.06 10        022126.00
                LX,$X3,XCSZ1                                           21753.06 10        022126.40
                        LX,$X3,XCSZ1                                   21753.06 10        022127.00
                LX,$X3,XCSZ1                                           21753.06 10        022127.40
                        LX,$X3,XCSZ1                                   21753.06 10        022130.00
                LX,$X3,XCSZ1                                           21753.06 10        022130.40
                        LX,$X3,XCSZ1                                   21753.06 10        022131.00
                LX,$X3,XCSZ1                                           21753.06 10        022131.40
                        LX,$X3,XCSZ1                                   21753.06 10        022132.00
                LX,$X3,XCSZ1                                           21753.06 10        022132.40
                        LX,$X3,XCSZ1                                   21753.06 10        022133.00
                LX,$X3,XCSZ1                                           21753.06 10        022133.40
                        LX,$X3,XCSZ1                                   21753.06 10        022134.00
                LX,$X3,XCSZ1                                           21753.06 10        022134.40
                        LX,$X3,XCSZ1                                   21753.06 10        022135.00
                LX,$X3,XCSZ1                                           21753.06 10        022135.40
                        LX,$X3,XCSZ1                                   21753.06 10        022136.00
                LX,$X3,XCSZ1                                           21753.06 10        022136.40
                        LX,$X3,XCSZ1                                   21753.06 10        022137.00
                LX,$X3,XCSZ2             -LOAD ONCE WITH ZEROS         21754.06 10        022137.40
XCS6D1  KV,$X3,XCSZ2                     -TEST BITS 0-24               21754.06 90        022140.00
                SIC,SEN                                                1310.00 80         022140.40
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            BZXEZ,SERS      -ERR IF BIT PICKED UP/OR LOST    1304.32 C4         022141.00
        KC,$X3,XCSZ2        -TEST BITS 28-45                 21754.07 90        022141.40
        SIC,SEN                                              1310.00 80         022142.00
            BZXE,SERS       -ERR IF IX BITS DONT COMPARE     1304.32 C0         022142.40
        SR,$X3,XCSZ5        -REFILL TO WORK AREA             21756.07 70        022143.00
        SIC,SEN                                              1310.00 80         022143.40
            BXF,SERS        -ERR IF XF NOT 0 AS IT SHOULD BE 1304.23 42         022144.00
        LC,$X3,XCSZ5        -REFILL INTO COUNT FIELD         21756.06 50        022144.40
        KC,$X3,XCSZ2        -TEST BITS 46-63                 21754.07 90        022145.00
        SIC,SEN                                              1310.00 80         022145.40
            BZXE,SERS       -ERR IF BIT PICKED UP            1304.32 C0         022146.00
        LX,$X3,XCSZ1                                         21753.06 10        022146.40
            NOP             -RESTORE IX REG.                 0.30 00            022147.00
        NOP,0                                                0.30 00            022147.40
XCS6E   LX,$X4,XCSZ1                                         21753.10 10        022150.00
            LX,$X4,XCSZ1    -LOAD WITH ONES N TIMES %4¤      21753.10 10        022150.40
        LX,$X4,XCSZ1                                         21753.10 10        022151.00
            LX,$X4,XCSZ1                                     21753.10 10        022151.40
        LX,$X4,XCSZ1                                         21753.10 10        022152.00
            LX,$X4,XCSZ1                                     21753.10 10        022152.40
        LX,$X4,XCSZ1                                         21753.10 10        022153.00
            LX,$X4,XCSZ1                                     21753.10 10        022153.40
        LX,$X4,XCSZ1                                         21753.10 10        022154.00
            LX,$X4,XCSZ1                                     21753.10 10        022154.40
        LX,$X4,XCSZ1                                         21753.10 10        022155.00
            LX,$X4,XCSZ1                                     21753.10 10        022155.40
        LX,$X4,XCSZ1                                         21753.10 10        022156.00
            LX,$X4,XCSZ1                                     21753.10 10        022156.40
        LX,$X4,XCSZ1                                         21753.10 10        022157.00
            LX,$X4,XCSZ1                                     21753.10 10        022157.40
        LX,$X4,XCSZ1                                         21753.10 10        022160.00
            LX,$X4,XCSZ1                                     21753.10 10        022160.40
        LX,$X4,XCSZ1                                         21753.10 10        022161.00
            LX,$X4,XCSZ1                                     21753.10 10        022161.40
        LX,$X4,XCSZ2       -LOAD ONCE WITH ZEROS             21754.10 10        022162.00
XCS6E1  KV,$X4,XCSZ2       -TEST BITS 0-24                   21754.10 90        022162.40
        SIC,SEN                                              1310.00 80         022163.00
            BZXEZ,SERS      -ERR IF BIT PICKED UP/OR LOST    1304.32 C4         022163.40
        KC,$X4,XCSZ2       -TEST BITS 28-45                  21754.11 90        022164.00
        SIC,SEN                                              1310.00 80         022164.40
            BZXE,SERS       -ERR IF IX BITS DONT COMPARE     1304.32 C0         022165.00
        SR,$X4,XCSZ5       -REFILL TO WORK AREA              21756.11 70        022165.40
        SIC,SEN                                              1310.00 80         022166.00
            BXF,SERS        -ERR IF XF NOT 0 AS IT SHOULD BE 1304.23 42         022166.40
        LC,$X4,XCSZ5       -REFILL INTO COUNT FIELD          21756.10 50        022167.00
        KC,$X4,XCSZ2       -TEST BITS 46-63                  21754.11 90        022167.40
        SIC,SEN                                              1310.00 80         022170.00
            BZXE,SERS       -ERR IF BIT PICKED UP            1304.32 C0         022170.40
        LX,$X4,XCSZ1                                         21753.10 10        022171.00
            NOP             -RESTORE IX REG.                 0.30 00            022171.40
        NOP,0                                                0.30 00            022172.00
XCS6F   LX,$X5,XCSZ1                                         21753.12 10        022172.40
            LX,$X5,XCSZ1    -LOAD WITH ONES N TIMES %5¤      21753.12 10        022173.00
        LX,$X5,XCSZ1                                         21753.12 10        022173.40
            LX,$X5,XCSZ1                                     21753.12 10        022174.00
        LX,$X5,XCSZ1                                         21753.12 10        022174.40
            LX,$X5,XCSZ1                                     21753.12 10        022175.00
        LX,$X5,XCSZ1                                         21753.12 10        022175.40
            LX,$X5,XCSZ1                                     21753.12 10        022176.00
        LX,$X5,XCSZ1                                         21753.12 10        022176.40
            LX,$X5,XCSZ1                                     21753.12 10        022177.00
        LX,$X5,XCSZ1                                         21753.12 10        022177.40
            LX,$X5,XCSZ1                                     21753.12 10        022200.00
        LX,$X5,XCSZ1                                         21753.12 10        022200.40
            LX,$X5,XCSZ1                                     21753.12 10        022201.00
        LX,$X5,XCSZ1                                         21753.12 10        022201.40
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                        LX,$X5,XCSZ1                                              21753.12 10              022202.00
        LX,$X5,XCSZ1                                                             21753.12 10              022202.40
                        LX,$X5,XCSZ1                                              21753.12 10              022203.00
        LX,$X5,XCSZ1                                                             21753.12 10              022203.40
                        LX,$X5,XCSZ1                                              21753.12 10              022204.00
        LX,$X5,XCSZ2              -LOAD ONCE WITH ZEROS                           21754.12 10              022204.40
XCS6F1  KV,$X5,XCSZ2              -TEST BITS 0-24                                 21754.12 90              022205.00
        SIC,SEN                                                                  1310.00 80               022205.40
                BZXEZ,SERS        -ERR IF BIT PICKED UP/OR LOST                   1304.32 C4               022206.00
        KC,$X5,XCSZ2             -TEST BITS 28-45                                21754.13 90              022206.40
        SIC,SEN                                                                  1310.00 80               022207.00
                BZXE,SERS         -ERR IF IX BITS DONT COMPARE                    1304.32 C0               022207.40
        SR,$X5,XCSZ5             -REFILL TO WORK AREA                            21756.13 70              022210.00
        SIC,SEN                                                                  1310.00 80               022210.40
                BXF,SERS          -ERR IF XF NOT 0 AS IT SHOULD BE                1304.23 42               022211.00
        LC,$X5,XCSZ5             -REFILL INTO COUNT FIELD                        21756.12 50              022211.40
        KC,$X5,XCSZ2             -TEST BITS 46-63                                21754.13 90              022212.00
        SIC,SEN                                                                  1310.00 80               022212.40
                BZXE,SERS         -ERR IF BIT PICKED UP                           1304.32 C0               022213.00
        LX,$X5,XCSZ1                                                             21753.12 10              022213.40
                NOP               -RESTORE IX REG.                                0.30 00                  022214.00
        NOP,0                                                                    0.30 00                  022214.40
XCS6G   LX,$X6,XCSZ1                                                             21753.14 10              022215.00
                LX,$X6,XCSZ1      -LOAD WITH ONES N TIMES %6¤                     21753.14 10              022215.40
        LX,$X6,XCSZ1                                                             21753.14 10              022216.00
                LX,$X6,XCSZ1                                                      21753.14 10              022216.40
        LX,$X6,XCSZ1                                                             21753.14 10              022217.00
                LX,$X6,XCSZ1                                                      21753.14 10              022217.40
        LX,$X6,XCSZ1                                                             21753.14 10              022220.00
                LX,$X6,XCSZ1                                                      21753.14 10              022220.40
        LX,$X6,XCSZ1                                                             21753.14 10              022221.00
                LX,$X6,XCSZ1                                                      21753.14 10              022221.40
        LX,$X6,XCSZ1                                                             21753.14 10              022222.00
                LX,$X6,XCSZ1                                                      21753.14 10              022222.40
        LX,$X6,XCSZ1                                                             21753.14 10              022223.00
                LX,$X6,XCSZ1                                                      21753.14 10              022223.40
        LX,$X6,XCSZ1                                                             21753.14 10              022224.00
                LX,$X6,XCSZ1                                                      21753.14 10              022224.40
        LX,$X6,XCSZ1                                                             21753.14 10              022225.00
                LX,$X6,XCSZ1                                                      21753.14 10              022225.40
        LX,$X6,XCSZ1                                                             21753.14 10              022226.00
                LX,$X6,XCSZ1                                                      21753.14 10              022226.40
        LX,$X6,XCSZ2              -LOAD ONCE WITH ZEROS                           21754.14 10              022227.00
XCS6G1  KV,$X6,XCSZ2              -TEST BITS 0-24                                 21754.14 90              022227.40
        SIC,SEN                                                                  1310.00 80               022230.00
                BZXEZ,SERS        -ERR IF BIT PICKED UP/OR LOST                   1304.32 C4               022230.40
        KC,$X6,XCSZ2             -TEST BITS 28-45                                21754.15 90              022231.00
        SIC,SEN                                                                  1310.00 80               022231.40
                BZXE,SERS         -ERR IF IX BITS DONT COMPARE                    1304.32 C0               022232.00
        SR,$X6,XCSZ5             -REFILL TO WORK AREA                            21756.15 70              022232.40
        SIC,SEN                                                                  1310.00 80               022233.00
                BXF,SERS          -ERR IF XF NOT 0 AS IT SHOULD BE                1304.23 42               022233.40
        LC,$X6,XCSZ5             -REFILL INTO COUNT FIELD                        21756.14 50              022234.00
        KC,$X6,XCSZ2             -TEST BITS 46-63                                21754.15 90              022234.40
        SIC,SEN                                                                  1310.00 80               022235.00
                BZXE,SERS         -ERR IF BIT PICKED UP                           1304.32 C0               022235.40
        LX,$X6,XCSZ1                                                             21753.14 10              022236.00
                NOP               -RESTORE IX REG.                                0.30 00                  022236.40
        NOP,0                                                                    0.30 00                  022237.00
XCS6H   LX,$X7,XCSZ1                                                             21753.16 10              022237.40
                LX,$X7,XCSZ1      -LOAD WITH ONES N TIMES %7¤                     21753.16 10              022240.00
        LX,$X7,XCSZ1                                                             21753.16 10              022240.40
                LX,$X7,XCSZ1                                                      21753.16 10              022241.00
        LX,$X7,XCSZ1                                                             21753.16 10              022241.40
                LX,$X7,XCSZ1                                                      21753.16 10              022242.00
        LX,$X7,XCSZ1                                                             21753.16 10              022242.40
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            LX,$X7,XCSZ1                                          21753.16 10          022243.00
        LX,$X7,XCSZ1                                              21753.16 10          022243.40
            LX,$X7,XCSZ1                                          21753.16 10          022244.00
        LX,$X7,XCSZ1                                              21753.16 10          022244.40
            LX,$X7,XCSZ1                                          21753.16 10          022245.00
        LX,$X7,XCSZ1                                              21753.16 10          022245.40
            LX,$X7,XCSZ1                                          21753.16 10          022246.00
        LX,$X7,XCSZ1                                              21753.16 10          022246.40
            LX,$X7,XCSZ1                                          21753.16 10          022247.00
        LX,$X7,XCSZ1                                              21753.16 10          022247.40
            LX,$X7,XCSZ1                                          21753.16 10          022250.00
        LX,$X7,XCSZ1                                              21753.16 10          022250.40
            LX,$X7,XCSZ1                                          21753.16 10          022251.00
        LX,$X7,XCSZ2           -LOAD ONCE WITH ZEROS             21754.16 10          022251.40
XCS6H1  KV,$X7,XCSZ2           -TEST BITS 0-24                   21754.16 90          022252.00
        SIC,SEN                                                   1310.00 80          022252.40
            BZXEZ,SERS         -ERR IF BIT PICKED UP/OR LOST     1304.32 C4          022253.00
        KC,$X7,XCSZ2           -TEST BITS 28-45                  21754.17 90          022253.40
        SIC,SEN                                                   1310.00 80          022254.00
            BZXE,SERS          -ERR IF IX BITS DONT COMPARE      1304.32 C0          022254.40
        SR,$X7,XCSZ5           -REFILL TO WORK AREA              21756.17 70          022255.00
        SIC,SEN                                                   1310.00 80          022255.40
            BXF,SERS           -ERR IF XF NOT 0 AS IT SHOULD BE  1304.23 42          022256.00
        LC,$X7,XCSZ5           -REFILL INTO COUNT FIELD          21756.16 50          022256.40
        KC,$X7,XCSZ2           -TEST BITS 46-63                  21754.17 90          022257.00
        SIC,SEN                                                   1310.00 80          022257.40
            BZXE,SERS          -ERR IF BIT PICKED UP             1304.32 C0          022260.00
        LX,$X7,XCSZ1                                              21753.16 10          022260.40
            NOP                -RESTORE IX REG.                     0.30 00          022261.00
        NOP,0                                                       0.30 00          022261.40
XCS6J   LX,$X8,XCSZ1                                              21753.20 10          022262.00
            LX,$X8,XCSZ1       -LOAD WITH ONES N TIMES %8¤       21753.20 10          022262.40
        LX,$X8,XCSZ1                                              21753.20 10          022263.00
            LX,$X8,XCSZ1                                          21753.20 10          022263.40
        LX,$X8,XCSZ1                                              21753.20 10          022264.00
            LX,$X8,XCSZ1                                          21753.20 10          022264.40
        LX,$X8,XCSZ1                                              21753.20 10          022265.00
            LX,$X8,XCSZ1                                          21753.20 10          022265.40
        LX,$X8,XCSZ1                                              21753.20 10          022266.00
            LX,$X8,XCSZ1                                          21753.20 10          022266.40
        LX,$X8,XCSZ1                                              21753.20 10          022267.00
            LX,$X8,XCSZ1                                          21753.20 10          022267.40
        LX,$X8,XCSZ1                                              21753.20 10          022270.00
            LX,$X8,XCSZ1                                          21753.20 10          022270.40
        LX,$X8,XCSZ1                                              21753.20 10          022271.00
            LX,$X8,XCSZ1                                          21753.20 10          022271.40
        LX,$X8,XCSZ1                                              21753.20 10          022272.00
            LX,$X8,XCSZ1                                          21753.20 10          022272.40
        LX,$X8,XCSZ1                                              21753.20 10          022273.00
            LX,$X8,XCSZ1                                          21753.20 10          022273.40
        LX,$X8,XCSZ2           -LOAD ONCE WITH ZEROS             21754.20 10          022274.00
XCS6J1  KV,$X8,XCSZ2           -TEST BITS 0-24                   21754.20 90          022274.40
        SIC,SEN                                                   1310.00 80          022275.00
            BZXEZ,SERS         -ERR IF BIT PICKED UP/OR LOST     1304.32 C4          022275.40
        KC,$X8,XCSZ2           -TEST BITS 28-45                  21754.21 90          022276.00
        SIC,SEN                                                   1310.00 80          022276.40
            BZXE,SERS          -ERR IF IX BITS DONT COMPARE      1304.32 C0          022277.00
        SR,$X8,XCSZ5           -REFILL TO WORK AREA              21756.21 70          022277.40
        SIC,SEN                                                   1310.00 80          022300.00
            BXF,SERS           -ERR IF XF NOT 0 AS IT SHOULD BE  1304.23 42          022300.40
        LC,$X8,XCSZ5           -REFILL INTO COUNT FIELD          21756.20 50          022301.00
        KC,$X8,XCSZ2           -TEST BITS 46-63                  21754.21 90          022301.40
        SIC,SEN                                                   1310.00 80          022302.00
            BZXE,SERS          -ERR IF BIT PICKED UP             1304.32 C0          022302.40
        LX,$X8,XCSZ1                                              21753.20 10          022303.00
            NOP                -RESTORE IX REG.                     0.30 00          022303.40
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                NOP,0                                                         0.30 00                022304.00
XCS6K     LX,$X9,XCSZ1                                                     21753.22 10                022304.40
                LX,$X9,XCSZ1        -LOAD WITH ONES N TIMES %9¤             21753.22 10                022305.00
          LX,$X9,XCSZ1                                                     21753.22 10                022305.40
                LX,$X9,XCSZ1                                               21753.22 10                022306.00
          LX,$X9,XCSZ1                                                     21753.22 10                022306.40
                LX,$X9,XCSZ1                                               21753.22 10                022307.00
          LX,$X9,XCSZ1                                                     21753.22 10                022307.40
                LX,$X9,XCSZ1                                               21753.22 10                022310.00
          LX,$X9,XCSZ1                                                     21753.22 10                022310.40
                LX,$X9,XCSZ1                                               21753.22 10                022311.00
          LX,$X9,XCSZ1                                                     21753.22 10                022311.40
                LX,$X9,XCSZ1                                               21753.22 10                022312.00
          LX,$X9,XCSZ1                                                     21753.22 10                022312.40
                LX,$X9,XCSZ1                                               21753.22 10                022313.00
          LX,$X9,XCSZ1                                                     21753.22 10                022313.40
                LX,$X9,XCSZ1                                               21753.22 10                022314.00
          LX,$X9,XCSZ1                                                     21753.22 10                022314.40
                LX,$X9,XCSZ1                                               21753.22 10                022315.00
          LX,$X9,XCSZ1                                                     21753.22 10                022315.40
                LX,$X9,XCSZ1                                               21753.22 10                022316.00
          LX,$X9,XCSZ2        -LOAD ONCE WITH ZEROS                       21754.22 10                022316.40
XCS6K1    KV,$X9,XCSZ2        -TEST BITS 0-24                             21754.22 90                022317.00
          SIC,SEN                                                          1310.00 80                022317.40
                BZXEZ,SERS     -ERR IF BIT PICKED UP/OR LOST               1304.32 C4                022320.00
          KC,$X9,XCSZ2        -TEST BITS 28-45                            21754.23 90                022320.40
          SIC,SEN                                                          1310.00 80                022321.00
                BZXE,SERS      -ERR IF IX BITS DONT COMPARE                1304.32 C0                022321.40
          SR,$X9,XCSZ5        -REFILL TO WORK AREA                        21756.23 70                022322.00
          SIC,SEN                                                          1310.00 80                022322.40
                BXF,SERS       -ERR IF XF NOT 0 AS IT SHOULD BE            1304.23 42                022323.00
          LC,$X9,XCSZ5        -REFILL INTO COUNT FIELD                    21756.22 50                022323.40
          KC,$X9,XCSZ2        -TEST BITS 46-63                            21754.23 90                022324.00
          SIC,SEN                                                          1310.00 80                022324.40
                BZXE,SERS      -ERR IF BIT PICKED UP                       1304.32 C0                022325.00
          LX,$X9,XCSZ1                                                    21753.22 10                022325.40
                NOP            -RESTORE IX REG.                            0.30 00                022326.00
          NOP,0                                                           0.30 00                022326.40
XCS6L     LX,$X10,XCSZ1                                                   21753.24 10                022327.00
                LX,$X10,XCSZ1    -LOAD WITH ONES N TIMES %10¤             21753.24 10                022327.40
          LX,$X10,XCSZ1                                                   21753.24 10                022330.00
                LX,$X10,XCSZ1                                             21753.24 10                022330.40
          LX,$X10,XCSZ1                                                   21753.24 10                022331.00
                LX,$X10,XCSZ1                                             21753.24 10                022331.40
          LX,$X10,XCSZ1                                                   21753.24 10                022332.00
                LX,$X10,XCSZ1                                             21753.24 10                022332.40
          LX,$X10,XCSZ1                                                   21753.24 10                022333.00
                LX,$X10,XCSZ1                                             21753.24 10                022333.40
          LX,$X10,XCSZ1                                                   21753.24 10                022334.00
                LX,$X10,XCSZ1                                             21753.24 10                022334.40
          LX,$X10,XCSZ1                                                   21753.24 10                022335.00
                LX,$X10,XCSZ1                                             21753.24 10                022335.40
          LX,$X10,XCSZ1                                                   21753.24 10                022336.00
                LX,$X10,XCSZ1                                             21753.24 10                022336.40
          LX,$X10,XCSZ1                                                   21753.24 10                022337.00
                LX,$X10,XCSZ1                                             21753.24 10                022337.40
          LX,$X10,XCSZ1                                                   21753.24 10                022340.00
                LX,$X10,XCSZ1                                             21753.24 10                022340.40
          LX,$X10,XCSZ2        -LOAD ONCE WITH ZEROS                     21754.24 10                022341.00
XCS6L1    KV,$X10,XCSZ2        -TEST BITS 0-24                           21754.24 90                022341.40
          SIC,SEN                                                         1310.00 80                022342.00
                BZXEZ,SERS      -ERR IF BIT PICKED UP/OR LOST             1304.32 C4                022342.40
          KC,$X10,XCSZ2        -TEST BITS 28-45                          21754.25 90                022343.00
          SIC,SEN                                                         1310.00 80                022343.40
                BZXE,SERS       -ERR IF IX BITS DONT COMPARE              1304.32 C0                022344.00
          SR,$X10,XCSZ5        -REFILL TO WORK AREA                      21756.25 70                022344.40
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        SIC,SEN                                                   1310.00 80              022345.00
              BXF,SERS          -ERR IF XF NOT 0 AS IT SHOULD BE  1304.23 42              022345.40
        LC,$X10,XCSZ5           -REFILL INTO COUNT FIELD          21756.24 50             022346.00
        KC,$X10,XCSZ2           -TEST BITS 46-63                  21754.25 90             022346.40
        SIC,SEN                                                   1310.00 80              022347.00
              BZXE,SERS         -ERR IF BIT PICKED UP             1304.32 C0              022347.40
        LX,$X10,XCSZ1                                             21753.24 10             022350.00
              NOP               -RESTORE IX REG.                  0.30 00                 022350.40
        NOP,0                                                     0.30 00                 022351.00
XCS6M   LX,$X11,XCSZ1                                             21753.26 10             022351.40
              LX,$X11,XCSZ1     -LOAD WITH ONES N TIMES %11¤      21753.26 10             022352.00
        LX,$X11,XCSZ1                                             21753.26 10             022352.40
              LX,$X11,XCSZ1                                       21753.26 10             022353.00
        LX,$X11,XCSZ1                                             21753.26 10             022353.40
              LX,$X11,XCSZ1                                       21753.26 10             022354.00
        LX,$X11,XCSZ1                                             21753.26 10             022354.40
              LX,$X11,XCSZ1                                       21753.26 10             022355.00
        LX,$X11,XCSZ1                                             21753.26 10             022355.40
              LX,$X11,XCSZ1                                       21753.26 10             022356.00
        LX,$X11,XCSZ1                                             21753.26 10             022356.40
              LX,$X11,XCSZ1                                       21753.26 10             022357.00
        LX,$X11,XCSZ1                                             21753.26 10             022357.40
              LX,$X11,XCSZ1                                       21753.26 10             022360.00
        LX,$X11,XCSZ1                                             21753.26 10             022360.40
              LX,$X11,XCSZ1                                       21753.26 10             022361.00
        LX,$X11,XCSZ1                                             21753.26 10             022361.40
              LX,$X11,XCSZ1                                       21753.26 10             022362.00
        LX,$X11,XCSZ1                                             21753.26 10             022362.40
              LX,$X11,XCSZ1                                       21753.26 10             022363.00
        LX,$X11,XCSZ2          -LOAD ONCE WITH ZEROS              21754.26 10             022363.40
XCS6M1  KV,$X11,XCSZ2          -TEST BITS 0-24                    21754.26 90             022364.00
        SIC,SEN                                                   1310.00 80              022364.40
              BZXEZ,SERS        -ERR IF BIT PICKED UP/OR LOST     1304.32 C4              022365.00
        KC,$X11,XCSZ2          -TEST BITS 28-45                   21754.27 90             022365.40
        SIC,SEN                                                   1310.00 80              022366.00
              BZXE,SERS         -ERR IF IX BITS DONT COMPARE      1304.32 C0              022366.40
        SR,$X11,XCSZ5          -REFILL TO WORK AREA               21756.27 70             022367.00
        SIC,SEN                                                   1310.00 80              022367.40
              BXF,SERS          -ERR IF XF NOT 0 AS IT SHOULD BE  1304.23 42              022370.00
        LC,$X11,XCSZ5          -REFILL INTO COUNT FIELD           21756.26 50             022370.40
        KC,$X11,XCSZ2          -TEST BITS 46-63                   21754.27 90             022371.00
        SIC,SEN                                                   1310.00 80              022371.40
              BZXE,SERS         -ERR IF BIT PICKED UP             1304.32 C0              022372.00
        LX,$X11,XCSZ1                                             21753.26 10             022372.40
              NOP               -RESTORE IX REG.                  0.30 00                 022373.00
        NOP,0                                                     0.30 00                 022373.40
XCS6N   LX,$X12,XCSZ1                                             21753.30 10             022374.00
              LX,$X12,XCSZ1     -LOAD WITH ONES N TIMES%12¤       21753.30 10             022374.40
        LX,$X12,XCSZ1                                             21753.30 10             022375.00
              LX,$X12,XCSZ1                                       21753.30 10             022375.40
        LX,$X12,XCSZ1                                             21753.30 10             022376.00
              LX,$X12,XCSZ1                                       21753.30 10             022376.40
        LX,$X12,XCSZ1                                             21753.30 10             022377.00
              LX,$X12,XCSZ1                                       21753.30 10             022377.40
        LX,$X12,XCSZ1                                             21753.30 10             022400.00
              LX,$X12,XCSZ1                                       21753.30 10             022400.40
        LX,$X12,XCSZ1                                             21753.30 10             022401.00
              LX,$X12,XCSZ1                                       21753.30 10             022401.40
        LX,$X12,XCSZ1                                             21753.30 10             022402.00
              LX,$X12,XCSZ1                                       21753.30 10             022402.40
        LX,$X12,XCSZ1                                             21753.30 10             022403.00
              LX,$X12,XCSZ1                                       21753.30 10             022403.40
        LX,$X12,XCSZ1                                             21753.30 10             022404.00
              LX,$X12,XCSZ1                                       21753.30 10             022404.40
        LX,$X12,XCSZ1                                             21753.30 10             022405.00
              LX,$X12,XCSZ1                                       21753.30 10             022405.40
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            LX,$X12,XCSZ1                                               21753.30 10        022406.00
                    LX,$X12,XCSZ1                                       21753.30 10        022406.40
            LX,$X12,XCSZ2               -LOAD ONCE WITH ZEROS           21754.30 10        022407.00
XCS6N1      KV,$X12,XCSZ2               -TEST BITS 0-24                 21754.30 90        022407.40
            SIC,SEN                                                     1310.00 80         022410.00
                    BZXEZ,SERS          -ERR IF BIT PICKED UP/OR LOST   1304.32 C4         022410.40
            KC,$X12,XCSZ2               -TEST BITS 28-45                21754.31 90        022411.00
            SIC,SEN                                                     1310.00 80         022411.40
                    BZXE,SERS           -ERR IF IX BITS DONT COMPARE    1304.32 CO         022412.00
            SR,$X12,XCSZ5               -REFILL TO WORK AREA            21756.31 70        022412.40
            SIC,SEN                                                     1310.00 80         022413.00
                    BXF,SERS            -ERR IF XF NOT 0 AS IT SHOULD BE 1304.23 42        022413.40
            LC,$X12,XCSZ5               -REFILL INTO COUNT FIELD        21756.30 50        022414.00
            KC,$X12,XCSZ2               -TEST BITS 46-63                21754.31 90        022414.40
            SIC,SEN                                                     1310.00 80         022415.00
                    BZXE,SERS           -ERR IF BIT PICKED UP           1304.32 CO         022415.40
            LX,$X12,XCSZ1                                               21753.30 10        022416.00
                    NOP                 -RESTORE IX REG.                0.30 00            022416.40
            NOP,0                                                       0.30 00            022417.00
XCS6P       LX,$X13,XCSZ1                                               21753.32 10        022417.40
                    LX,$X13,XCSZ1       -LOAD WITH ONES N TIMES %13¤    21753.32 10        022420.00
            LX,$X13,XCSZ1                                               21753.32 10        022420.40
                    LX,$X13,XCSZ1                                       21753.32 10        022421.00
            LX,$X13,XCSZ1                                               21753.32 10        022421.40
                    LX,$X13,XCSZ1                                       21753.32 10        022422.00
            LX,$X13,XCSZ1                                               21753.32 10        022422.40
                    LX,$X13,XCSZ1                                       21753.32 10        022423.00
            LX,$X13,XCSZ1                                               21753.32 10        022423.40
                    LX,$X13,XCSZ1                                       21753.32 10        022424.00
            LX,$X13,XCSZ1                                               21753.32 10        022424.40
                    LX,$X13,XCSZ1                                       21753.32 10        022425.00
            LX,$X13,XCSZ1                                               21753.32 10        022425.40
                    LX,$X13,XCSZ1                                       21753.32 10        022426.00
            LX,$X13,XCSZ1                                               21753.32 10        022426.40
                    LX,$X13,XCSZ1                                       21753.32 10        022427.00
            LX,$X13,XCSZ1                                               21753.32 10        022427.40
                    LX,$X13,XCSZ1                                       21753.32 10        022430.00
            LX,$X13,XCSZ1                                               21753.32 10        022430.40
                    LX,$X13,XCSZ1                                       21753.32 10        022431.00
            LX,$X13,XCSZ2               -LOAD ONCE WITH ZEROS           21754.32 10        022431.40
XCS6P1      KV,$X13,XCSZ2               -TEST BITS 0-24                 21754.32 90        022432.00
            SIC,SEN                                                     1310.00 80         022432.40
                    BZXEZ,SERS          -ERR IF BIT PICKED UP/OR LOST   1304.32 C4         022433.00
            KC,$X13,XCSZ2               -TEST BITS 28-45                21754.33 90        022433.40
            SIC,SEN                                                     1310.00 80         022434.00
                    BZXE,SERS           -ERR IF IX BITS DONT COMPARE    1304.32 CO         022434.40
            SR,$X13,XCSZ5               -REFILL TO WORK AREA            21756.33 70        022435.00
            SIC,SEN                                                     1310.00 80         022435.40
                    BXF,SERS            -ERR IF XF NOT 0 AS IT SHOULD BE 1304.23 42        022436.00
            LC,$X13,XCSZ5               -REFILL INTO COUNT FIELD        21756.32 50        022436.40
            KC,$X13,XCSZ2               -TEST BITS 46-63                21754.33 90        022437.00
            SIC,SEN                                                     1310.00 80         022437.40
                    BZXE,SERS           -ERR IF BIT PICKED UP           1304.32 CO         022440.00
            LX,$X13,XCSZ1                                               21753.32 10        022440.40
                    NOP                 -RESTORE IX REG.                0.30 00            022441.00
            NOP,0                                                       0.30 00            022441.40
XCS6Q       LX,$X14,XCSZ1                                               21753.34 10        022442.00
                    LX,$X14,XCSZ1       -LOAD WITH ONES N TIMES %14¤    21753.34 10        022442.40
            LX,$X14,XCSZ1                                               21753.34 10        022443.00
                    LX,$X14,XCSZ1                                       21753.34 10        022443.40
            LX,$X14,XCSZ1                                               21753.34 10        022444.00
                    LX,$X14,XCSZ1                                       21753.34 10        022444.40
            LX,$X14,XCSZ1                                               21753.34 10        022445.00
                    LX,$X14,XCSZ1                                       21753.34 10        022445.40
            LX,$X14,XCSZ1                                               21753.34 10        022446.00
                    LX,$X14,XCSZ1                                       21753.34 10        022446.40
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          LX,$X14,XCSZ1                                          21753.34 10         022447.00
                   LX,$X14,XCSZ1                                 21753.34 10         022447.40
          LX,$X14,XCSZ1                                          21753.34 10         022450.00
                   LX,$X14,XCSZ1                                 21753.34 10         022450.40
          LX,$X14,XCSZ1                                          21753.34 10         022451.00
                   LX,$X14,XCSZ1                                 21753.34 10         022451.40
          LX,$X14,XCSZ1                                          21753.34 10         022452.00
                   LX,$X14,XCSZ1                                 21753.34 10         022452.40
          LX,$X14,XCSZ1                                          21753.34 10         022453.00
                   LX,$X14,XCSZ1                                 21753.34 10         022453.40
          LX,$X14,XCSZ2         -LOAD ONCE WITH ZEROS            21754.34 10         022454.00
XCS6Q1    KV,$X14,XCSZ2         -TEST BITS 0-24                  21754.34 90         022454.40
          SIC,SEN                                                1310.00 80          022455.00
                   BZXEZ,SERS   -ERR IF BIT PICKED UP/OR LOST    1304.32 C4          022455.40
          KC,$X14,XCSZ2         -TEST BITS 28-45                 21754.35 90         022456.00
          SIC,SEN                                                1310.00 80          022456.40
                   BZXE,SERS    -ERR IF IX BITS DONT COMPARE     1304.32 C0          022457.00
          SR,$X14,XCSZ5         -REFILL TO WORK AREA             21756.35 70         022457.40
          SIC,SEN                                                1310.00 80          022460.00
                   BXF,SERS     -ERR IF XF NOT AS IT SHOULD BE % 1304.23 42          022460.40
          LC,$X14,XCSZ5         -REFILL INTO COUNT FIELD         21756.34 50         022461.00
          KC,$X14,XCSZ2         -TEST BITS 46-63                 21754.35 90         022461.40
          SIC,SEN                                                1310.00 80          022462.00
                   BZXE,SERS    -ERR IF BIT PICKED UP            1304.32 C0          022462.40
          LX,$X14,XCSZ1                                          21753.34 10         022463.00
                   NOP          -RESTORE IX REG.                 0.30 00             022463.40
          NOP,0                                                  0.30 00             022464.00
XCS6R     LX,$X15,XCSZ1                                          21753.36 10         022464.40
                   LX,$X15,XCSZ1 -LOAD WITH ONES N TIMES %15¤    21753.36 10         022465.00
          LX,$X15,XCSZ1                                          21753.36 10         022465.40
                   LX,$X15,XCSZ1                                 21753.36 10         022466.00
          LX,$X15,XCSZ1                                          21753.36 10         022466.40
                   LX,$X15,XCSZ1                                 21753.36 10         022467.00
          LX,$X15,XCSZ1                                          21753.36 10         022467.40
                   LX,$X15,XCSZ1                                 21753.36 10         022470.00
          LX,$X15,XCSZ1                                          21753.36 10         022470.40
                   LX,$X15,XCSZ1                                 21753.36 10         022471.00
          LX,$X15,XCSZ1                                          21753.36 10         022471.40
                   LX,$X15,XCSZ1                                 21753.36 10         022472.00
          LX,$X15,XCSZ1                                          21753.36 10         022472.40
                   LX,$X15,XCSZ1                                 21753.36 10         022473.00
          LX,$X15,XCSZ1                                          21753.36 10         022473.40
                   LX,$X15,XCSZ1                                 21753.36 10         022474.00
          LX,$X15,XCSZ1                                          21753.36 10         022474.40
                   LX,$X15,XCSZ1                                 21753.36 10         022475.00
          LX,$X15,XCSZ1                                          21753.36 10         022475.40
                   LX,$X15,XCSZ1                                 21753.36 10         022476.00
          LX,$X15,XCSZ2         -LOAD ONCE WITH ZEROS            21754.36 10         022476.40
XCS6R1    KV,$X15,XCSZ2         -TEST BITS 0-24                  21754.36 90         022477.00
          SIC,SEN                                                1310.00 80          022477.40
                   BZXEZ,SERS   -ERR IF BIT PICKED UP/OR LOST    1304.32 C4          022500.00
          KC,$X15,XCSZ2         -TEST BITS 28-45                 21754.37 90         022500.40
          SIC,SEN                                                1310.00 80          022501.00
                   BZXE,SERS    -ERR IF IX BITS DONT COMPARE     1304.32 C0          022501.40
          SR,$X15,XCSZ5         -REFILL TO WORK AREA             21756.37 70         022502.00
          SIC,SEN                                                1310.00 80          022502.40
                   BXF,SERS     -ERR IF XF NOT AS IT SHOULD BE % 1304.23 42          022503.00
          LC,$X15,XCSZ5         -REFILL INTO COUNT FIELD         21756.36 50         022503.40
          KC,$X15,XCSZ2         -TEST BITS 46-63                 21754.37 90         022504.00
          SIC,SEN                                                1310.00 80          022504.40
                   BZXE,SERS    -ERR IF BIT PICKED UP            1304.32 C0          022505.00
          LX,$X15,XCSZ1                                          21753.36 10         022505.40
                   NOP          -RESTORE IX REG.                 0.30 00             022506.00
          NOP,0                                                  0.30 00             022506.40
          B,$+1,0                                                22510.10 00         022507.00
          B,XCS6-TO LOOP IN HIGH ZERO TEST                       22026.10 00         022507.40
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            SIC,SEN0+.32                                       1311.40 80        022510.00
                    B,SSW-TEST SENSE SWITCHES                  1301.10 00        022510.40
XCS7        LX,$X0,XCSZ1                                       21753.00 10       022511.00
                    LX,$X1,XCSZ1-INITIALIZE BY                 21753.02 10       022511.40
            LX,$X2,XCSZ1                                       21753.04 10       022512.00
                    LX,$X3,XCSZ1-SETTING ALL IX               21753.06 10       022512.40
            LX,$X4,XCSZ1                                       21753.10 10       022513.00
                    LX,$X5,XCSZ1-REGS TO ONES                  21753.12 10       022513.40
            LX,$X6,XCSZ1                                       21753.14 10       022514.00
                    LX,$X7,XCSZ1-PREPARE FOR                   21753.16 10       022514.40
            LX,$X8,XCSZ1                                       21753.20 10       022515.00
                    LX,$X9,XCSZ1-HIGH ZERO                     21753.22 10       022515.40
            LX,$X10,XCSZ1                                      21753.24 10       022516.00
                    LX,$X11,XCSZ1-%DISTURBED¤                  21753.26 10       022516.40
            LX,$X12,XCSZ1                                      21753.30 10       022517.00
                    LX,$X13,XCSZ1-TEST                         21753.32 10       022517.40
            LX,$X14,XCSZ1                                      21753.34 10       022520.00
                    LX,$X15,XCSZ1                              21753.36 10       022520.40
XCS7A       LX,$X0,XCSZ2-LOAD WITH ZEROS ONE TIME %0¤          21754.00 10       022521.00
            SX,$X0,XCSZ5                                       21756.01 10       022521.40
                    SX,$X0,XCSZ5-READ IX REG N TIMES           21756.01 10       022522.00
            SX,$X0,XCSZ5                                       21756.01 10       022522.40
                    SX,$X0,XCSZ5                               21756.01 10       022523.00
            SX,$X0,XCSZ5                                       21756.01 10       022523.40
                    SX,$X0,XCSZ5                               21756.01 10       022524.00
            SX,$X0,XCSZ5                                       21756.01 10       022524.40
                    SX,$X0,XCSZ5                               21756.01 10       022525.00
            SX,$X0,XCSZ5                                       21756.01 10       022525.40
                    SX,$X0,XCSZ5                               21756.01 10       022526.00
            SX,$X0,XCSZ5                                       21756.01 10       022526.40
                    SX,$X0,XCSZ5                               21756.01 10       022527.00
            SX,$X0,XCSZ5                                       21756.01 10       022527.40
                    SX,$X0,XCSZ5                               21756.01 10       022530.00
            SX,$X0,XCSZ5                                       21756.01 10       022530.40
                    SX,$X0,XCSZ5                               21756.01 10       022531.00
            SX,$X0,XCSZ5                                       21756.01 10       022531.40
                    SX,$X0,XCSZ5                               21756.01 10       022532.00
            SX,$X0,XCSZ5                                       21756.01 10       022532.40
                    SX,$X0,XCSZ5                               21756.01 10       022533.00
XCS7A1      KV,$X0,XCSZ2-TEST BITS 0-24                        21754.00 90       022533.40
            SIC,SEN                                            1310.00 80        022534.00
                    BZXEZ,SERS-ERR IF BIT PICKED UP            1304.32 C4        022534.40
            KC,$X0,XCSZ2-TEST BITS 28-45                       21754.01 90       022535.00
            SIC,SEN                                            1310.00 80        022535.40
                    BZXE,SERS-BITS MUST COMPARE                1304.32 C0        022536.00
            SR,$X0,XCSZ5                    -REFILL TO WORK AREA 21756.01 70      022536.40
            SIC,SEN                                            1310.00 80        022537.00
                    BXF,SERS-ERR IF XF NOT 0 AS IT SHOULD BE %25¤  1304.23 42    022537.40
            LC,$X0,XCSZ5-REFILL INTO COUNT FIELD               21756.00 50       022540.00
            KC,$X0,XCSZ2-TEST BITS 46-63                       21754.01 90       022540.40
            SIC,SEN                                            1310.00 80        022541.00
                    BZXE,SERS-ERR IF BIT PICKED UP             1304.32 C0        022541.40
            LX,$X0,XCSZ1-RESTORE IX REG.                       21753.00 10       022542.00
            NOP,0                                              0.30 00           022542.40
                    NOP,0                                      0.30 00           022543.00
XCS7B       LX,$X1,XCSZ2-LOAD WITH ZEROS ONE TIME %1¤          21754.02 10       022543.40
            SX,$X1,XCSZ5                                   '   21756.03 10       022544.00
                    SX,$X1,XCSZ5-READ IX REG N TIMES           21756.03 10       022544.40
            SX,$X1,XCSZ5                                       21756.03 10       022545.00
                    SX,$X1,XCSZ5                               21756.03 10       022545.40
            SX,$X1,XCSZ5                                       21756.03 10       022546.00
                    SX,$X1,XCSZ5                               21756.03 10       022546.40
            SX,$X1,XCSZ5                                       21756.03 10       022547.00
                    SX,$X1,XCSZ5                               21756.03 10       022547.40
            SX,$X1,XCSZ5                                       21756.03 10       022550.00
                    SX,$X1,XCSZ5                               21756.03 10       022550.40
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                SX,$X1,XCSZ5                                                21756.03 10        022551.00
                        SX,$X1,XCSZ5                                        21756.03 10        022551.40
                SX,$X1,XCSZ5                                                21756.03 10        022552.00
                        SX,$X1,XCSZ5                                        21756.03 10        022552.40
                SX,$X1,XCSZ5                                                21756.03 10        022553.00
                        SX,$X1,XCSZ5                                        21756.03 10        022553.40
                SX,$X1,XCSZ5                                                21756.03 10        022554.00
                        SX,$X1,XCSZ5                                        21756.03 10        022554.40
                SX,$X1,XCSZ5                                                21756.03 10        022555.00
                        SX,$X1,XCSZ5                                        21756.03 10        022555.40
XCS7B1  KV,$X1,XCSZ2-TEST BITS 0-24                                        21754.02 90        022556.00
        SIC,SEN                                                            1310.00 80         022556.40
                BZXEZ,SERS-ERR IF BIT PICKED UP                           1304.32 C4         022557.00
        KC,$X1,XCSZ2-TEST BITS 28-45                                      21754.03 90        022557.40
        SIC,SEN                                                            1310.00 80         022560.00
                BZXE,SERS-BITS MUST COMPARE                               1304.32 C0         022560.40
        SR,$X1,XCSZ5-REFILL TO WORK AREA                                  21756.03 70        022561.00
        SIC,SEN                                                            1310.00 80         022561.40
                BXF,SERS-ERR IF XF NOT 0 AS IT SHOULD BE %25¤             1304.23 42         022562.00
        LC,$X1,XCSZ5-REFILL INTO COUNT FIELD                              21756.02 50        022562.40
        KC,$X1,XCSZ2-TEST BITS 46-63                                      21754.03 90        022563.00
        SIC,SEN                                                            1310.00 80         022563.40
                BZXE,SERS-ERR IF BIT PICKED UP                            1304.32 C0         022564.00
        LX,$X1,XCSZ1-RESTORE IX REG.                                      21753.02 10        022564.40
        NOP,0                                                              0.30 00            022565.00
                NOP,0                                                      0.30 00            022565.40
XCS7C   LX,$X2,XCSZ2                        -LOAD WITH ZEROS ONE TIME %2¤  21754.04 10        022566.00
        SX,$X2,XCSZ5                                                       21756.05 10        022566.40
                SX,$X2,XCSZ5                -READ IX REG N TIMES           21756.05 10        022567.00
        SX,$X2,XCSZ5                                                       21756.05 10        022567.40
                SX,$X2,XCSZ5                                               21756.05 10        022570.00
        SX,$X2,XCSZ5                                                       21756.05 10        022570.40
                SX,$X2,XCSZ5                                               21756.05 10        022571.00
        SX,$X2,XCSZ5                                                       21756.05 10        022571.40
                SX,$X2,XCSZ5                                               21756.05 10        022572.00
        SX,$X2,XCSZ5                                                       21756.05 10        022572.40
                SX,$X2,XCSZ5                                               21756.05 10        022573.00
        SX,$X2,XCSZ5                                                       21756.05 10        022573.40
                SX,$X2,XCSZ5                                               21756.05 10        022574.00
        SX,$X2,XCSZ5                                                       21756.05 10        022574.40
                SX,$X2,XCSZ5                                               21756.05 10        022575.00
        SX,$X2,XCSZ5                                                       21756.05 10        022575.40
                SX,$X2,XCSZ5                                               21756.05 10        022576.00
        SX,$X2,XCSZ5                                                       21756.05 10        022576.40
                SX,$X2,XCSZ5                                               21756.05 10        022577.00
        SX,$X2,XCSZ5                                                       21756.05 10        022577.40
                SX,$X2,XCSZ5                                               21756.05 10        022600.00
XCS7C1  KV,$X2,XCSZ2                        -TEST BITS 0-24                21754.04 90        022600.40
        SIC,SEN                                                            1310.00 80         022601.00
                BZXEZ,SERS                  -ERR IF BIT PICKED UP          1304.32 C4         022601.40
        KC,$X2,XCSZ2                        -TEST BITS 28-45               21754.05 90        022602.00
        SIC,SEN                                                            1310.00 80         022602.40
                BZXE,SERS                   -BITS MUST COMPARE             1304.32 C0         022603.00
        SR,$X2,XCSZ5                        -REFILL TO WORK AREA           21756.05 70        022603.40
        SIC,SEN                                                            1310.00 80         022604.00
                BXF,SERS                    -ERR IF XF NOT 0 AS IT SHOULD BE  1304.23 42      022604.40
        LC,$X2,XCSZ5                        -REFILL INTO COUNT FIELD       21756.04 50        022605.00
        KC,$X2,XCSZ2                        -TEST BITS 46-63               21754.05 90        022605.40
        SIC,SEN                                                            1310.00 80         022606.00
                BZXE,SERS                   -ERR IF BIT PICKED UP          1304.32 C0         022606.40
        LX,$X2,XCSZ1                        -RESTORE IX REG.               21753.04 10        022607.00
        NOP,0                                                              0.30 00            022607.40
                NOP,0                                                      0.30 00            022610.00
XCS7D   LX,$X3,XCSZ2                        -LOAD WITH ZEROS ONE TIME %3¤  21754.06 10        022610.40
        SX,$X3,XCSZ5                                                       21756.07 10        022611.00
                SX,$X3,XCSZ5                -READ IX REG N TIMES           21756.07 10        022611.40
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                SX,$X3,XCSZ5                                                                21756.07 10              022612.00
                        SX,$X3,XCSZ5                                                        21756.07 10              022612.40
                SX,$X3,XCSZ5                                                                21756.07 10              022613.00
                        SX,$X3,XCSZ5                                                        21756.07 10              022613.40
                SX,$X3,XCSZ5                                                                21756.07 10              022614.00
                        SX,$X3,XCSZ5                                                        21756.07 10              022614.40
                SX,$X3,XCSZ5                                                                21756.07 10              022615.00
                        SX,$X3,XCSZ5                                                        21756.07 10              022615.40
                SX,$X3,XCSZ5                                                                21756.07 10              022616.00
                        SX,$X3,XCSZ5                                                        21756.07 10              022616.40
                SX,$X3,XCSZ5                                                                21756.07 10              022617.00
                        SX,$X3,XCSZ5                                                        21756.07 10              022617.40
                SX,$X3,XCSZ5                                                                21756.07 10              022620.00
                        SX,$X3,XCSZ5                                                        21756.07 10              022620.40
                SX,$X3,XCSZ5                                                                21756.07 10              022621.00
                        SX,$X3,XCSZ5                                                        21756.07 10              022621.40
                SX,$X3,XCSZ5                                                                21756.07 10              022622.00
                        SX,$X3,XCSZ5                                                        21756.07 10              022622.40
XCS7D1          KV,$X3,XCSZ2                         -TEST BITS 0-24                         21754.06 90              022623.00
                SIC,SEN                                                                     1310.00 80               022623.40
                        BZXEZ,SERS                   -ERR IF BIT PICKED UP/LOST              1304.32 C4               022624.00
                KC,$X3,XCSZ2                         -TEST BITS 28-45                        21754.07 90              022624.40
                SIC,SEN                                                                     1310.00 80               022625.00
                        BZXE,SERS                    -BITS MUST COMPARE                      1304.32 C0               022625.40
                SR,$X3,XCSZ5                         -REFILL TO WORK AREA                    21756.07 70              022626.00
                SIC,SEN                                                                     1310.00 80               022626.40
                        BXF,SERS                     -ERR IF XF NOT AS IT SHOULD BE %        1304.23 42               022627.00
                LC,$X3,XCSZ5                         -REFILL INTO COUNT FIELD                21756.06 50              022627.40
                KC,$X3,XCSZ2                         -TEST BITS 46-63                        21754.07 90              022630.00
                SIC,SEN                                                                     1310.00 80               022630.40
                        BZXE,SERS                    -ERR IF BIT PICKED UP LOST              1304.32 C0               022631.00
                LX,$X3,XCSZ1                         -RESTORE IX REG.                        21753.06 10              022631.40
                NOP,0                                                                       0.30 00                  022632.00
                        NOP,0                                                               0.30 00                  022632.40
XCS7E           LX,$X4,XCSZ2                         -LOAD WITH ZEROS ONE TIME %4□           21754.10 10              022633.00
                SX,$X4,XCSZ5                                                                21756.11 10              022633.40
                        SX,$X4,XCSZ5                 -READ IX REG N TIMES                    21756.11 10              022634.00
                SX,$X4,XCSZ5                                                                21756.11 10              022634.40
                        SX,$X4,XCSZ5                                                        21756.11 10              022635.00
                SX,$X4,XCSZ5                                                                21756.11 10              022635.40
                        SX,$X4,XCSZ5                                                        21756.11 10              022636.00
                SX,$X4,XCSZ5                                                                21756.11 10              022636.40
                        SX,$X4,XCSZ5                                                        21756.11 10              022637.00
                SX,$X4,XCSZ5                                                                21756.11 10              022637.40
                        SX,$X4,XCSZ5                                                        21756.11 10              022640.00
                SX,$X4,XCSZ5                                                                21756.11 10              022640.40
                        SX,$X4,XCSZ5                                                        21756.11 10              022641.00
                SX,$X4,XCSZ5                                                                21756.11 10              022641.40
                        SX,$X4,XCSZ5                                                        21756.11 10              022642.00
                SX,$X4,XCSZ5                                                                21756.11 10              022642.40
                        SX,$X4,XCSZ5                                                        21756.11 10              022643.00
                SX,$X4,XCSZ5                                                                21756.11 10              022643.40
                        SX,$X4,XCSZ5                                                        21756.11 10              022644.00
                SX,$X4,XCSZ5                                                                21756.11 10              022644.40
                        SX,$X4,XCSZ5                                                        21756.11 10              022645.00
XCS7E1          KV,$X4,XCSZ2                         -TEST BITS 0-24                         21754.10 90              022645.40
                SIC,SEN                                                                     1310.00 80               022646.00
                        BZXEZ,SERS                   -ERR IF BIT PICKED UP                   1304.32 C4               022646.40
                KC,$X4,XCSZ2                         -TEST BITS 28-45                        21754.11 90              022647.00
                SIC,SEN                                                                     1310.00 80               022647.40
                        BZXE,SERS                    -BITS MUST COMPARE                      1304.32 C0               022650.00
                SR,$X4,XCSZ5                         -REFILL TO WORK AREA                    21756.11 70              022650.40
                SIC,SEN                                                                     1310.00 80               022651.00
                        BXF,SERS                     -ERR IF XF NOT 0 AS IT SHOULD BE        1304.23 42               022651.40
                LC,$X4,XCSZ5                         -REFILL INTO COUNT FIELD                21756.10 50              022652.00
                KC,$X4,XCSZ2                         -TEST BITS 46-63                        21754.11 90              022652.40
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          SIC,SEN                                                   1310.00 80              022653.00
                BZXE,SERS              -ERR IF BIT PICKED UP         1304.32 C0              022653.40
          LX,$X4,XCSZ1                 -RESTORE IX REG.              21753.10 10             022654.00
          NOP,0                                                      0.30 00                 022654.40
                NOP,0                                                0.30 00                 022655.00
XCS7F     LX,$X5,XCSZ2                 -LOAD WITH ZEROS ONE TIME %5¤ 21754.12 10             022655.40
          SX,$X5,XCSZ5                                              21756.13 10             022656.00
                SX,$X5,XCSZ5           -READ IX REG N TIMES          21756.13 10             022656.40
          SX,$X5,XCSZ5                                              21756.13 10             022657.00
                SX,$X5,XCSZ5                                        21756.13 10             022657.40
          SX,$X5,XCSZ5                                              21756.13 10             022660.00
                SX,$X5,XCSZ5                                        21756.13 10             022660.40
          SX,$X5,XCSZ5                                              21756.13 10             022661.00
                SX,$X5,XCSZ5                                        21756.13 10             022661.40
          SX,$X5,XCSZ5                                              21756.13 10             022662.00
                SX,$X5,XCSZ5                                        21756.13 10             022662.40
          SX,$X5,XCSZ5                                              21756.13 10             022663.00
                SX,$X5,XCSZ5                                        21756.13 10             022663.40
          SX,$X5,XCSZ5                                              21756.13 10             022664.00
                SX,$X5,XCSZ5                                        21756.13 10             022664.40
          SX,$X5,XCSZ5                                              21756.13 10             022665.00
                SX,$X5,XCSZ5                                        21756.13 10             022665.40
          SX,$X5,XCSZ5                                              21756.13 10             022666.00
                SX,$X5,XCSZ5                                        21756.13 10             022666.40
          SX,$X5,XCSZ5                                              21756.13 10             022667.00
                SX,$X5,XCSZ5                                        21756.13 10             022667.40
XCS7F1    KV,$X5,XCSZ2                 -TEST BITS 0-24              21754.12 90             022670.00
          SIC,SEN                                                   1310.00 80              022670.40
                BZXEZ,SERS             -ERR IF BIT PICKED UP         1304.32 C4              022671.00
          KC,$X5,XCSZ2                 -TEST BITS 28-45             21754.13 90             022671.40
          SIC,SEN                                                   1310.00 80              022672.00
                BZXE,SERS              -BITS MUST COMPARE            1304.32 C0              022672.40
          SR,$X5,XCSZ5                 -REFILL TO WORK AREA          21756.13 70             022673.00
          SIC,SEN                                                   1310.00 80              022673.40
                BXF,SERS               -ERR IF XF NOT 0 AS IT SHOULD BE  1304.23 42         022674.00
          LC,$X5,XCSZ5                 -REFILL INTO COUNT FIELD      21756.12 50             022674.40
          KC,$X5,XCSZ2                 -TEST BITS 46-63             21754.13 90             022675.00
          SIC,SEN                                                   1310.00 80              022675.40
                BZXE,SERS              -ERR IF BIT PICKED UP         1304.32 C0              022676.00
          LX,$X5,XCSZ1                 -RESTORE IX REG.              21753.12 10             022676.40
          NOP,0                                                      0.30 00                 022677.00
                NOP,0                                                0.30 00                 022677.40
XCS7G     LX,$X6,XCSZ2                 -LOAD WITH ZEROS ONE TIME %6¤ 21754.14 10             022700.00
          SX,$X6,XCSZ5                                              21756.15 10             022700.40
                SX,$X6,XCSZ5           -READ IX REG N TIMES          21756.15 10             022701.00
          SX,$X6,XCSZ5                                              21756.15 10             022701.40
                SX,$X6,XCSZ5                                        21756.15 10             022702.00
          SX,$X6,XCSZ5                                              21756.15 10             022702.40
                SX,$X6,XCSZ5                                        21756.15 10             022703.00
          SX,$X6,XCSZ5                                              21756.15 10             022703.40
                SX,$X6,XCSZ5                                        21756.15 10             022704.00
          SX,$X6,XCSZ5                                              21756.15 10             022704.40
                SX,$X6,XCSZ5                                        21756.15 10             022705.00
          SX,$X6,XCSZ5                                              21756.15 10             022705.40
                SX,$X6,XCSZ5                                        21756.15 10             022706.00
          SX,$X6,XCSZ5                                              21756.15 10             022706.40
                SX,$X6,XCSZ5                                        21756.15 10             022707.00
          SX,$X6,XCSZ5                                              21756.15 10             022707.40
                SX,$X6,XCSZ5                                        21756.15 10             022710.00
          SX,$X6,XCSZ5                                              21756.15 10             022710.40
                SX,$X6,XCSZ5                                        21756.15 10             022711.00
          SX,$X6,XCSZ5                                              21756.15 10             022711.40
                SX,$X6,XCSZ5                                        21756.15 10             022712.00
XCS7G1    KV,$X6,XCSZ2                 -TEST BITS 0-24              21754.14 90             022712.40
          SIC,SEN                                                   1310.00 80              022713.00
                BZXEZ,SERS             -ERR IF BIT PICKED UP         1304.32 C4              022713.40
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                KC,$X6,XCSZ2             -TEST BITS 28-45                        21754.15 90            022714.00
                SIC,SEN                                                          1310.00 80             022714.40
                        BZXE,SERS       -BITS MUST COMPARE                      1304.32 CO             022715.00
                SR,$X6,XCSZ5            -REFILL TO WORK AREA                     21756.15 70            022715.40
                SIC,SEN                                                          1310.00 80             022716.00
                        BXF,SERS        -ERR IF XF NOT 0 AS IT SHOULD BE        1304.23 42             022716.40
                LC,$X6,XCSZ5           -REFILL INTO COUNT FIELD                 21756.14 50            022717.00
                KC,$X6,XCSZ2           -TEST BITS 46-63                         21754.15 90            022717.40
                SIC,SEN                                                          1310.00 80             022720.00
                        BZXE,SERS       -ERR IF BIT PICKED UP                   1304.32 CO             022720.40
                LX,$X6,XCSZ1           -RESTORE IX REG.                         21753.14 10            022721.00
                NOP,0                                                           0.30 00                022721.40
                        NOP,0                                                   0.30 00                022722.00
XCS7H           LX,$X7,XCSZ2           -LOAD WITH ZEROS ONE TIME %7¤            21754.16 10            022722.40
                SX,$X7,XCSZ5                                                    21756.17 10            022723.00
                        SX,$X7,XCSZ5    -READ IX REG N TIMES                    21756.17 10            022723.40
                SX,$X7,XCSZ5                                                    21756.17 10            022724.00
                        SX,$X7,XCSZ5                                            21756.17 10            022724.40
                SX,$X7,XCSZ5                                                    21756.17 10            022725.00
                        SX,$X7,XCSZ5                                            21756.17 10            022725.40
                SX,$X7,XCSZ5                                                    21756.17 10            022726.00
                        SX,$X7,XCSZ5                                            21756.17 10            022726.40
                SX,$X7,XCSZ5                                                    21756.17 10            022727.00
                        SX,$X7,XCSZ5                                            21756.17 10            022727.40
                SX,$X7,XCSZ5                                                    21756.17 10            022730.00
                        SX,$X7,XCSZ5                                            21756.17 10            022730.40
                SX,$X7,XCSZ5                                                    21756.17 10            022731.00
                        SX,$X7,XCSZ5                                            21756.17 10            022731.40
                SX,$X7,XCSZ5                                                    21756.17 10            022732.00
                        SX,$X7,XCSZ5                                            21756.17 10            022732.40
                SX,$X7,XCSZ5                                                    21756.17 10            022733.00
                        SX,$X7,XCSZ5                                            21756.17 10            022733.40
                SX,$X7,XCSZ5                                                    21756.17 10            022734.00
                        SX,$X7,XCSZ5                                            21756.17 10            022734.40
XCS7H1          KV,$X7,XCSZ2           -TEST BITS 0-24                          21754.16 90            022735.00
                SIC,SEN                                                          1310.00 80             022735.40
                        BZXEZ,SERS      -ERR IF BIT PICKED UP                   1304.32 C4             022736.00
                KC,$X7,XCSZ2           -TEST BITS 28-45                         21754.17 90            022736.40
                SIC,SEN                                                          1310.00 80             022737.00
                        BZXE,SERS       -BITS MUST COMPARE                      1304.32 CO             022737.40
                SR,$X7,XCSZ5           -REFILL TO WORK AREA                     21756.17 70            022740.00
                SIC,SEN                                                          1310.00 80             022740.40
                        BXF,SERS        -ERR IF XF NOT 0 AS IT SHOULD BE        1304.23 42             022741.00
                LC,$X7,XCSZ5           -REFILL INTO COUNT FIELD                 21756.16 50            022741.40
                KC,$X7,XCSZ2           -TEST BITS 46-63                         21754.17 90            022742.00
                SIC,SEN                                                          1310.00 80             022742.40
                        BZXE,SERS       -ERR IF BIT PICKED UP                   1304.32 CO             022743.00
                LX,$X7,XCSZ1           -RESTORE IX REG.                         21753.16 10            022743.40
                NOP,0                                                           0.30 00                022744.00
                        NOP,0                                                   0.30 00                022744.40
XCS7J           LX,$X8,XCSZ2           -LOAD WITH ZEROS ONE TIME %8¤            21754.20 10            022745.00
                SX,$X8,XCSZ5                                                    21756.21 10            022745.40
                        SX,$X8,XCSZ5    -READ IX REG N TIMES                    21756.21 10            022746.00
                SX,$X8,XCSZ5                                                    21756.21 10            022746.40
                        SX,$X8,XCSZ5                                            21756.21 10            022747.00
                SX,$X8,XCSZ5                                                    21756.21 10            022747.40
                        SX,$X8,XCSZ5                                            21756.21 10            022750.00
                SX,$X8,XCSZ5                                                    21756.21 10            022750.40
                        SX,$X8,XCSZ5                                            21756.21 10            022751.00
                SX,$X8,XCSZ5                                                    21756.21 10            022751.40
                        SX,$X8,XCSZ5                                            21756.21 10            022752.00
                SX,$X8,XCSZ5                                                    21756.21 10            022752.40
                        SX,$X8,XCSZ5                                            21756.21 10            022753.00
                SX,$X8,XCSZ5                                                    21756.21 10            022753.40
                        SX,$X8,XCSZ5                                            21756.21 10            022754.00
                SX,$X8,XCSZ5                                                    21756.21 10            022754.40
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                    SX,$X8,XCSZ5                                           21756.21 10          022755.00
          SX,$X8,XCSZ5                                                     21756.21 10          022755.40
                    SX,$X8,XCSZ5                                           21756.21 10          022756.00
          SX,$X8,XCSZ5                                                     21756.21 10          022756.40
                    SX,$X8,XCSZ5                                           21756.21 10          022757.00
XCS7J1    KV,$X8,XCSZ2                  -TEST BITS 0-24                    21754.20 90          022757.40
          SIC,SEN                                                          1310.00 80           022760.00
                    BZXEZ,SERS          -ERR IF BIT PICKED UP             1304.32 C4           022760.40
          KC,$X8,XCSZ2                  -TEST BITS 28-45                   21754.21 90          022761.00
          SIC,SEN                                                          1310.00 80           022761.40
                    BZXE,SERS           -BITS MUST COMPARE                1304.32 C0           022762.00
          SR,$X8,XCSZ5                  -REFILL TO WORK AREA              21756.21 70          022762.40
          SIC,SEN                                                          1310.00 80           022763.00
                    BXF,SERS            -ERR IF XF NOT 0 AS IT SHOULD BE  1304.23 42           022763.40
          LC,$X8,XCSZ5                  -REFILL INTO COUNT FIELD          21756.20 50          022764.00
          KC,$X8,XCSZ2                  -TEST BITS 46-63                   21754.21 90          022764.40
          SIC,SEN                                                          1310.00 80           022765.00
                    BZXE,SERS           -ERR IF BIT PICKED UP             1304.32 C0           022765.40
          LX,$X8,XCSZ1                  -RESTORE IX REG.                  21753.20 10          022766.00
          NOP,0                                                            0.30 00              022766.40
                    NOP,0                                                  0.30 00              022767.00
XCS7K     LX,$X9,XCSZ2                  -LOAD WITH ZEROS ONE TIME %9¤     21754.22 10          022767.40
          SX,$X9,XCSZ5                                                     21756.23 10          022770.00
                    SX,$X9,XCSZ5        -READ IX REG N TIMES              21756.23 10          022770.40
          SX,$X9,XCSZ5                                                     21756.23 10          022771.00
                    SX,$X9,XCSZ5                                           21756.23 10          022771.40
          SX,$X9,XCSZ5                                                     21756.23 10          022772.00
                    SX,$X9,XCSZ5                                           21756.23 10          022772.40
          SX,$X9,XCSZ5                                                     21756.23 10          022773.00
                    SX,$X9,XCSZ5                                           21756.23 10          022773.40
          SX,$X9,XCSZ5                                                     21756.23 10          022774.00
                    SX,$X9,XCSZ5                                           21756.23 10          022774.40
          SX,$X9,XCSZ5                                                     21756.23 10          022775.00
                    SX,$X9,XCSZ5                                           21756.23 10          022775.40
          SX,$X9,XCSZ5                                                     21756.23 10          022776.00
                    SX,$X9,XCSZ5                                           21756.23 10          022776.40
          SX,$X9,XCSZ5                                                     21756.23 10          022777.00
                    SX,$X9,XCSZ5                                           21756.23 10          022777.40
          SX,$X9,XCSZ5                                                     21756.23 10          023000.00
                    SX,$X9,XCSZ5                                           21756.23 10          023000.40
          SX,$X9,XCSZ5                                                     21756.23 10          023001.00
                    SX,$X9,XCSZ5                                           21756.23 10          023001.40
XCS7K1    KV,$X9,XCSZ2                  -TEST BITS 0-24                    21754.22 90          023002.00
          SIC,SEN                                                          1310.00 80           023002.40
                    BZXEZ,SERS          -ERR IF BIT PICKED UP             1304.32 C4           023003.00
          KC,$X9,XCSZ2                  -TEST BITS 28-45                   21754.23 90          023003.40
          SIC,SEN                                                          1310.00 80           023004.00
                    BZXE,SERS           -BITS MUST COMPARE                1304.32 C0           023004.40
          SR,$X9,XCSZ5                  -REFILL TO WORK AREA              21756.23 70          023005.00
          SIC,SEN                                                          1310.00 80           023005.40
                    BXF,SERS            -ERR IF XF NOT 0 AS IT SHOULD BE  1304.23 42           023006.00
          LC,$X9,XCSZ5                  -REFILL INTO COUNT FIELD          21756.22 50          023006.40
          KC,$X9,XCSZ2                  -TEST BITS 46-63                   21754.23 90          023007.00
          SIC,SEN                                                          1310.00 80           023007.40
                    BZXE,SERS           -ERR IF BIT PICKED UP             1304.32 C0           023010.00
          LX,$X9,XCSZ1                  -RESTORE IX REG.                  21753.22 10          023010.40
          NOP,0                                                            0.30 00              023011.00
                    NOP,0                                                  0.30 00              023011.40
XCS7L     LX,$X10,XCSZ2                 -LOAD WITH ZEROS ONE TIME %10¤    21754.24 10          023012.00
          LX,$X10,XCSZ5                                                    21756.25 10          023012.40
                    SX,$X10,XCSZ5       -READ IX REG N TIMES              21756.25 10          023013.00
          SX,$X10,XCSZ5                                                    21756.25 10          023013.40
                    SX,$X10,XCSZ5                                          21756.25 10          023014.00
          SX,$X10,XCSZ5                                                    21756.25 10          023014.40
                    SX,$X10,XCSZ5                                          21756.25 10          023015.00
          SX,$X10,XCSZ5                                                    21756.25 10          023015.40
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                          SX,$X10,XCSZ5                                              21756.25 10              023016.00
            SX,$X10,XCSZ5                                                            21756.25 10              023016.40
                          SX,$X10,XCSZ5                                              21756.25 10              023017.00
            SX,$X10,XCSZ5                                                            21756.25 10              023017.40
                          SX,$X10,XCSZ5                                              21756.25 10              023020.00
            SX,$X10,XCSZ5                                                            21756.25 10              023020.40
                          SX,$X10,XCSZ5                                              21756.25 10              023021.00
            SX,$X10,XCSZ5                                                            21756.25 10              023021.40
                          SX,$X10,XCSZ5                                              21756.25 10              023022.00
            SX,$X10,XCSZ5                                                            21756.25 10              023022.40
                          SX,$X10,XCSZ5                                              21756.25 10              023023.00
            SX,$X10,XCSZ5                                                            21756.25 10              023023.40
                          SX,$X10,XCSZ5                                              21756.25 10              023024.00
XCS7L1      KV,$X10,XCSZ2            -TEST BITS 0-24                                  21754.24 90              023024.40
            SIC,SEN                                                                  1310.00 80               023025.00
                  BZXEZ,SERS        -ERR IF BIT PICKED UP                            1304.32 C4               023025.40
            KC,$X10,XCSZ2           -TEST BITS 28-45                                 21754.25 90              023026.00
            SIC,SEN                                                                  1310.00 80               023026.40
                  BZXE,SERS         -BITS MUST COMPARE                               1304.32 C0               023027.00
            SR,$X10,XCSZ5           -REFILL TO WORK AREA                             21756.25 70              023027.40
            SIC,SEN                                                                  1310.00 80               023030.00
                  BXF,SERS          -ERR IF XF NOT 0 AS IT SHOULD BE                 1304.23 42               023030.40
            LC,$X10,XCSZ5           -REFILL INTO COUNT FIELD                         21756.24 50              023031.00
            KC,$X10,XCSZ2           -TEST BITS 46-63                                 21754.25 90              023031.40
            SIC,SEN                                                                  1310.00 80               023032.00
                  BZXE,SERS         -ERR IF BIT PICKED UP                            1304.32 C0               023032.40
            LX,$X10,XCSZ1           -RESTORE IX REG.                                 21753.24 10              023033.00
            NOP,0                                                                    0.30 00                  023033.40
                  NOP,0                                                              0.30 00                  023034.00
XCS7M       LX,$X11,XCSZ2           -LOAD WITH ZEROS ONE TIME %11¤                   21754.26 10              023034.40
            SX,$X11,XCSZ5                                                            21756.27 10              023035.00
                          SX,$X11,XCSZ5   -READ IX REG N TIMES                       21756.27 10              023035.40
            SX,$X11,XCSZ5                                                            21756.27 10              023036.00
                          SX,$X11,XCSZ5                                              21756.27 10              023036.40
            SX,$X11,XCSZ5                                                            21756.27 10              023037.00
                          SX,$X11,XCSZ5                                              21756.27 10              023037.40
            SX,$X11,XCSZ5                                                            21756.27 10              023040.00
                          SX,$X11,XCSZ5                                              21756.27 10              023040.40
            SX,$X11,XCSZ5                                                            21756.27 10              023041.00
                          SX,$X11,XCSZ5                                              21756.27 10              023041.40
            SX,$X11,XCSZ5                                                            21756.27 10              023042.00
                          SX,$X11,XCSZ5                                              21756.27 10              023042.40
            SX,$X11,XCSZ5                                                            21756.27 10              023043.00
                          SX,$X11,XCSZ5                                              21756.27 10              023043.40
            SX,$X11,XCSZ5                                                            21756.27 10              023044.00
                          SX,$X11,XCSZ5                                              21756.27 10              023044.40
            SX,$X11,XCSZ5                                                            21756.27 10              023045.00
                          SX,$X11,XCSZ5                                              21756.27 10              023045.40
            SX,$X11,XCSZ5                                                            21756.27 10              023046.00
                          SX,$X11,XCSZ5                                              21756.27 10              023046.40
XCS7M1      KV,$X11,XCSZ2           -TEST BITS 0-24                                  21754.26 90              023047.00
            SIC,SEN                                                                  1310.00 80               023047.40
                  BZXEZ,SERS        -ERR IF BIT PICKED UP                            1304.32 C4               023050.00
            KC,$X11,XCSZ2           -TEST BITS 28-45                                 21754.27 90              023050.40
            SIC,SEN                                                                  1310.00 80               023051.00
                  BZXE,SERS         -BITS MUST COMPARE                               1304.32 C0               023051.40
            SR,$X11,XCSZ5           -REFILL TO WORK AREA                             21756.27 70              023052.00
            SIC,SEN                                                                  1310.00 80               023052.40
                  BXF,SERS          -ERR IF XF NOT 0 AS IT SHOULD BE                 1304.23 42               023053.00
            LC,$X11,XCSZ5           -REFILL INTO COUNT FIELD                         21756.26 50              023053.40
            KC,$X11,XCSZ2           -TEST BITS 46-63                                 21754.27 90              023054.00
            SIC,SEN                                                                  1310.00 80               023054.40
                  BZXE,SERS         -ERR IF BIT PICKED UP                            1304.32 C0               023055.00
            LX,$X11,XCSZ1           -RESTORE IX REG.                                 21753.26 10              023055.40
            NOP,0                                                                    0.30 00                  023056.00
                  NOP,0                                                              0.30 00                  023056.40
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XCS7N   LX,$X12,XCSZ2              -LOAD WITH ZEROS ONE TIME %12¤    21754.30 10      023057.00
        SX,$X12,XCSZ5                                               21756.31 10      023057.40
                SX,$X12,XCSZ5      -READ IX REG N TIMES             21756.31 10      023060.00
        SX,$X12,XCSZ5                                               21756.31 10      023060.40
                SX,$X12,XCSZ5                                       21756.31 10      023061.00
        SX,$X12,XCSZ5                                               21756.31 10      023061.40
                SX,$X12,XCSZ5                                       21756.31 10      023062.00
        SX,$X12,XCSZ5                                               21756.31 10      023062.40
                SX,$X12,XCSZ5                                       21756.31 10      023063.00
        SX,$X12,XCSZ5                                               21756.31 10      023063.40
                SX,$X12,XCSZ5                                       21756.31 10      023064.00
        SX,$X12,XCSZ5                                               21756.31 10      023064.40
                SX,$X12,XCSZ5                                       21756.31 10      023065.00
        SX,$X12,XCSZ5                                               21756.31 10      023065.40
                SX,$X12,XCSZ5                                       21756.31 10      023066.00
        SX,$X12,XCSZ5                                               21756.31 10      023066.40
                SX,$X12,XCSZ5                                       21756.31 10      023067.00
        SX,$X12,XCSZ5                                               21756.31 10      023067.40
                SX,$X12,XCSZ5                                       21756.31 10      023070.00
        SX,$X12,XCSZ5                                               21756.31 10      023070.40
                SX,$X12,XCSZ5                                       21756.31 10      023071.00
XCS7N1  KV,$X12,XCSZ2              -TEST BITS 0-24                  21754.30 90      023071.40
        SIC,SEN                                                     1310.00 80       023072.00
                BZXEZ,SERS         -ERR IF BIT PICKED UP            1304.32 C4       023072.40
        KC,$X12,XCSZ2              -TEST BITS 28-45                 21754.31 90      023073.00
        SIC,SEN                                                     1310.00 80       023073.40
                BZXE,SERS          -BITS MUST COMPARE               1304.32 C0       023074.00
        SR,$X12,XCSZ5             -REFILL TO WORK AREA              21756.31 70      023074.40
        SIC,SEN                                                     1310.00 80       023075.00
                BXF,SERS           -ERR IF XF NOT 0 AS IT SHOULD BE 1304.23 42       023075.40
        LC,$X12,XCSZ5             -REFILL INTO COUNT FIELD          21756.30 50      023076.00
        KC,$X12,XCSZ2             -TEST BITS 46-63                  21754.31 90      023076.40
        SIC,SEN                                                     1310.00 80       023077.00
                BZXE,SERS          -ERR IF BIT PICKED UP            1304.32 C0       023077.40
        LX,$X12,XCSZ1             -RESTORE IX REG.                  21753.30 10      023100.00
        NOP,0                                                       0.30 00          023100.40
                NOP,0                                               0.30 00          023101.00
XCS7P   LX,$X13,XCSZ2              -LOAD WITH ZEROS ONE TIME %13¤    21754.32 10     023101.40
        SX,$X13,XCSZ5                                               21756.33 10      023102.00
                SX,$X13,XCSZ5      -READ IX REG N TIMES             21756.33 10      023102.40
        SX,$X13,XCSZ5                                               21756.33 10      023103.00
                SX,$X13,XCSZ5                                       21756.33 10      023103.40
        SX,$X13,XCSZ5                                               21756.33 10      023104.00
                SX,$X13,XCSZ5                                       21756.33 10      023104.40
        SX,$X13,XCSZ5                                               21756.33 10      023105.00
                SX,$X13,XCSZ5                                       21756.33 10      023105.40
        SX,$X13,XCSZ5                                               21756.33 10      023106.00
                SX,$X13,XCSZ5                                       21756.33 10      023106.40
        SX,$X13,XCSZ5                                               21756.33 10      023107.00
                SX,$X13,XCSZ5                                       21756.33 10      023107.40
        SX,$X13,XCSZ5                                               21756.33 10      023110.00
                SX,$X13,XCSZ5                                       21756.33 10      023110.40
        SX,$X13,XCSZ5                                               21756.33 10      023111.00
                SX,$X13,XCSZ5                                       21756.33 10      023111.40
        SX,$X13,XCSZ5                                               21756.33 10      023112.00
                SX,$X13,XCSZ5                                       21756.33 10      023112.40
        SX,$X13,XCSZ5                                               21756.33 10      023113.00
                SX,$X13,XCSZ5                                       21756.33 10      023113.40
XCS7P1  KV,$X13,XCSZ2              -TEST BITS 0-24                  21754.32 90      023114.00
        SIC,SEN                                                     1310.00 80       023114.40
                BZXEZ,SERS         -ERR IF BIT PICKED UP            1304.32 C4       023115.00
        KC,$X13,XCSZ2             -TEST BITS 28-45                  21754.33 90      023115.40
        SIC,SEN                                                     1310.00 80       023116.00
                BZXE,SERS          -BITS MUST COMPARE               1304.32 C0       023116.40
        SR,$X13,XCSZ5             -REFILL TO WORK AREA              21756.33 70      023117.00
        SIC,SEN                                                     1310.00 80       023117.40
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                    BXF,SERS              -ERR IF XF NOT 0 AS IT SHOULD BE  1304.23 42        023120.00
        LC,$X13,XCSZ5                     -REFILL INTO COUNT FIELD          21756.32 50       023120.40
        KC,$X13,XCSZ2                     -TEST BITS 46-63                  21754.33 90       023121.00
        SIC,SEN                                                             1310.00 80        023121.40
                    BZXE,SERS             -ERR IF BIT PICKED UP             1304.32 C0        023122.00
        LX,$X13,XCSZ1                     -RESTORE IX REG.                  21753.32 10        023122.40
        NOP,0                                                               0.30 00           023123.00
                    NOP,0                                                   0.30 00           023123.40
XCS7Q   LX,$X14,XCSZ2                     -LOAD WITH ZEROS ONE TIME %14□    21754.34 10        023124.00
        SX,$X14,XCSZ5                                                       21756.35 10        023124.40
                    SX,$X14,XCSZ5         -READ IX REG N TIMES              21756.35 10        023125.00
        SX,$X14,XCSZ5                                                       21756.35 10        023125.40
                    SX,$X14,XCSZ5                                           21756.35 10        023126.00
        SX,$X14,XCSZ5                                                       21756.35 10        023126.40
                    SX,$X14,XCSZ5                                           21756.35 10        023127.00
        SX,$X14,XCSZ5                                                       21756.35 10        023127.40
                    SX,$X14,XCSZ5                                           21756.35 10        023130.00
        SX,$X14,XCSZ5                                                       21756.35 10        023130.40
                    SX,$X14,XCSZ5                                           21756.35 10        023131.00
        SX,$X14,XCSZ5                                                       21756.35 10        023131.40
                    SX,$X14,XCSZ5                                           21756.35 10        023132.00
        SX,$X14,XCSZ5                                                       21756.35 10        023132.40
                    SX,$X14,XCSZ5                                           21756.35 10        023133.00
        SX,$X14,XCSZ5                                                       21756.35 10        023133.40
                    SX,$X14,XCSZ5                                           21756.35 10        023134.00
        SX,$X14,XCSZ5                                                       21756.35 10        023134.40
                    SX,$X14,XCSZ5                                           21756.35 10        023135.00
        SX,$X14,XCSZ5                                                       21756.35 10        023135.40
                    SX,$X14,XCSZ5                                           21756.35 10        023136.00
XCS7Q1  KV,$X14,XCSZ2                     -TEST BITS 0-24                   21754.34 90        023136.40
        SIC,SEN                                                             1310.00 80        023137.00
                    BZXEZ,SERS            -ERR IF BIT PICKED UP             1304.32 C4        023137.40
        KC,$X14,XCSZ2                     -TEST BITS 28-45                  21754.35 90        023140.00
        SIC,SEN                                                             1310.00 80        023140.40
                    BZXE,SERS             -BITS MUST COMPARE                1304.32 C0        023141.00
        SR,$X14,XCSZ5                     -REFILL TO WORK AREA              21756.35 70        023141.40
        SIC,SEN                                                             1310.00 80        023142.00
                    BXF,SERS              -ERR IF XF NOT 0 AS IT SHOULD BE  1304.23 42        023142.40
        LC,$X14,XCSZ5                     -REFILL INTO COUNT FIELD          21756.34 50        023143.00
        KC,$X14,XCSZ2                     -TEST BITS 46-63                  21754.35 90        023143.40
        SIC,SEN                                                             1310.00 80        023144.00
                    BZXE,SERS             -ERR IF BIT PICKED UP             1304.32 C0        023144.40
        LX,$X14,XCSZ1                     -RESTORE IX REG.                  21753.34 10        023145.00
        NOP,0                                                               0.30 00           023145.40
                    NOP,0                                                   0.30 00           023146.00
XCS7R   LX,$X15,XCSZ2                     -LOAD WITH ZEROS ONE TIME %15□    21754.36 10        023146.40
        SX,$X15,XCSZ5                                                       21756.37 10        023147.00
                    SX,$X15,XCSZ5         -READ IX REG N TIMES              21756.37 10        023147.40
        SX,$X15,XCSZ5                                                       21756.37 10        023150.00
                    SX,$X15,XCSZ5                                           21756.37 10        023150.40
        SX,$X15,XCSZ5                                                       21756.37 10        023151.00
                    SX,$X15,XCSZ5                                           21756.37 10        023151.40
        SX,$X15,XCSZ5                                                       21756.37 10        023152.00
                    SX,$X15,XCSZ5                                           21756.37 10        023152.40
        SX,$X15,XCSZ5                                                       21756.37 10        023153.00
                    SX,$X15,XCSZ5                                           21756.37 10        023153.40
        SX,$X15,XCSZ5                                                       21756.37 10        023154.00
                    SX,$X15,XCSZ5                                           21756.37 10        023154.40
        SX,$X15,XCSZ5                                                       21756.37 10        023155.00
                    SX,$X15,XCSZ5                                           21756.37 10        023155.40
        SX,$X15,XCSZ5                                                       21756.37 10        023156.00
                    SX,$X15,XCSZ5                                           21756.37 10        023156.40
        SX,$X15,XCSZ5                                                       21756.37 10        023157.00
                    SX,$X15,XCSZ5                                           21756.37 10        023157.40
        SX,$X15,XCSZ5                                                       21756.37 10        023160.00
                    SX,$X15,XCSZ5                                           21756.37 10        023160.40
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XCS7R1   KV,$X15,XCSZ2              -TEST BITS 0-24               21754.36 90        023161.00
         SIC,SEN                                                 1310.00 80         023161.40
              BZXEZ,SERS           -ERR IF BIT PICKED UP         1304.32 C4         023162.00
         KC,$X15,XCSZ2             -TEST BITS 28-45              21754.37 90        023162.40
         SIC,SEN                                                 1310.00 80         023163.00
              BZXE,SERS            -BITS MUST COMPARE            1304.32 CO         023163.40
         SR,$X15,XCSZ5             -REFILL TO WORK AREA          21756.37 70        023164.00
         SIC,SEN                                                 1310.00 80         023164.40
              BXF,SERS             -ERR IF XF NOT 0 AS IT SHOULD BE  1304.23 42    023165.00
         LC,$X15,XCSZ5             -REFILL INTO COUNT FIELD      21756.36 50        023165.40
         KC,$X15,XCSZ2             -TEST BITS 46-63              21754.37 90        023166.00
         SIC,SEN                                                 1310.00 80         023166.40
              BZXE,SERS            -ERR IF BIT PICKED UP         1304.32 CO         023167.00
         LX,$X15,XCSZ1             -RESTORE IX REG.              21753.36 10        023167.40
         NOP,0                                                   0.30 00            023170.00
              NOP,0                                              0.30 00            023170.40
         B,$+1.0                                                 23172.10 00        023171.00
         B,XCS7                    -TO LOOP IN LOW ONES TEST     22511.10 00        023171.40
         SIC,SEN0+.32                                            1311.40 80         023172.00
              B,SSW                -TEST SENSE SWITCHES          1301.10 00         023172.40
XCS8     LX,$X0,XCSZ2                                            21754.00 10        023173.00
              LX,$X1,XCSZ2         -INITIALIZE BY                21754.02 10        023173.40
         LX,$X2,XCSZ2                                            21754.04 10        023174.00
              LX,$X3,XCSZ2         -SETTING ALL IX               21754.06 10        023174.40
         LX,$X4,XCSZ2                                            21754.10 10        023175.00
              LX,$X5,XCSZ2         -REGS TO ZEROS                21754.12 10        023175.40
         LX,$X6,XCSZ2                                            21754.14 10        023176.00
              LX,$X7,XCSZ2         -PREPARE FOR                  21754.16 10        023176.40
         LX,$X8,XCSZ2                                            21754.20 10        023177.00
              LX,$X9,XCSZ2         -LOW ONE                      21754.22 10        023177.40
         LX,$X10,XCSZ2                                           21754.24 10        023200.00
              LX,$X11,XCSZ2        -%UNDISTURBED¤                21754.26 10        023200.40
         LX,$X12,XCSZ2                                           21754.30 10        023201.00
              LX,$X13,XCSZ2        -TEST                         21754.32 10        023201.40
         LX,$X14,XCSZ2                                           21754.34 10        023202.00
              LX,$X15,XCSZ2                                      21754.36 10        023202.40
XCS8A    LX,$X0,XCSZ2                                            21754.00 10        023203.00
              LX,$X0,XCSZ2         -LOAD WITH ZEROS N TIMES %0¤  21754.00 10        023203.40
         LX,$X0,XCSZ2                                            21754.00 10        023204.00
              LX,$X0,XCSZ2                                       21754.00 10        023204.40
         LX,$X0,XCSZ2                                            21754.00 10        023205.00
              LX,$X0,XCSZ2                                       21754.00 10        023205.40
         LX,$X0,XCSZ2                                            21754.00 10        023206.00
              LX,$X0,XCSZ2                                       21754.00 10        023206.40
         LX,$X0,XCSZ2                                            21754.00 10        023207.00
              LX,$X0,XCSZ2                                       21754.00 10        023207.40
         LX,$X0,XCSZ2                                            21754.00 10        023210.00
              LX,$X0,XCSZ2                                       21754.00 10        023210.40
         LX,$X0,XCSZ2                                            21754.00 10        023211.00
              LX,$X0,XCSZ2                                       21754.00 10        023211.40
         LX,$X0,XCSZ2                                            21754.00 10        023212.00
              LX,$X0,XCSZ2                                       21754.00 10        023212.40
         LX,$X0,XCSZ2                                            21754.00 10        023213.00
              LX,$X0,XCSZ2                                       21754.00 10        023213.40
         LX,$X0,XCSZ2                                            21754.00 10        023214.00
              LX,$X0,XCSZ2                                       21754.00 10        023214.40
         LX,$X0,XCSZ1             -LOAD ONCE WITH ONES           21753.00 10        023215.00
XCS8A1   KV,$X0,XCSZ1             -TEST BITS 0-24                21753.00 90        023215.40
         SIC,SEN                                                 1310.00 80         023216.00
              BZXEZ,SERS           -ERR IF BIT LOST              1304.32 C4         023216.40
         KC,$X0,XCSZ1             -TEST BITS 28-45               21753.01 90        023217.00
         SIC,SEN                                                 1310.00 80         023217.40
              BZXE,SERS            -ERR IF IX BITS DONT COMPARE  1304.32 CO         023220.00
         SR,$X0,XCSZ5             -REFILL TO WORK AREA           21756.01 70        023220.40
         SIC,SEN                                                 1310.00 80         023221.00
              BZXF,SERS            -ERR IF XF NOT 1 AS IT SHOULD BE  1304.23 40    023221.40
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          LC,$X0,XCSZ5               -REFILL INTO COUNT FIELD            21756.00 50          023222.00
          KC,$X0,XCSZ1               -TEST BITS 46-63                    21753.01 90          023222.40
          SIC,SEN                                                        1310.00 80           023223.00
              BZXE,SERS             -ERR IF BIT LOST                     1304.32 C0           023223.40
          LX,$X0,XCSZ2                                                   21754.00 10          023224.00
              NOP                   -RESTORE IX REG.                     0.30 00              023224.40
          NOP,0                                                          0.30 00              023225.00
XCS8B     LX,$X1,XCSZ2                                                   21754.02 10          023225.40
              LX,$X1,XCSZ2         -LOAD WITH ZEROS N TIMES %1¤          21754.02 10          023226.00
          LX,$X1,XCSZ2                                                   21754.02 10          023226.40
              LX,$X1,XCSZ2                                               21754.02 10          023227.00
          LX,$X1,XCSZ2                                                   21754.02 10          023227.40
              LX,$X1,XCSZ2                                               21754.02 10          023230.00
          LX,$X1,XCSZ2                                                   21754.02 10          023230.40
              LX,$X1,XCSZ2                                               21754.02 10          023231.00
          LX,$X1,XCSZ2                                                   21754.02 10          023231.40
              LX,$X1,XCSZ2                                               21754.02 10          023232.00
          LX,$X1,XCSZ2                                                   21754.02 10          023232.40
              LX,$X1,XCSZ2                                               21754.02 10          023233.00
          LX,$X1,XCSZ2                                                   21754.02 10          023233.40
              LX,$X1,XCSZ2                                               21754.02 10          023234.00
          LX,$X1,XCSZ2                                                   21754.02 10          023234.40
              LX,$X1,XCSZ2                                               21754.02 10          023235.00
          LX,$X1,XCSZ2                                                   21754.02 10          023235.40
              LX,$X1,XCSZ2                                               21754.02 10          023236.00
          LX,$X1,XCSZ2                                                   21754.02 10          023236.40
              LX,$X1,XCSZ2                                               21754.02 10          023237.00
          LX,$X1,XCSZ1             -LOAD ONCE WITH ONES                  21753.02 10          023237.40
XCS8B1    KV,$X1,XCSZ1             -TEST BITS 0-24                       21753.02 90          023240.00
          SIC,SEN                                                        1310.00 80           023240.40
              BZXEZ,SERS          -ERR IF BIT LOST                       1304.32 C4           023241.00
          KC,$X1,XCSZ1            -TEST BITS 28-45                       21753.03 90          023241.40
          SIC,SEN                                                        1310.00 80           023242.00
              BZXE,SERS           -ERR IF IX BITS DONT COMPARE           1304.32 C0           023242.40
          SR,$X1,XCSZ5           -REFILL TO WORK AREA                    21756.03 70          023243.00
          SIC,SEN                                                        1310.00 80           023243.40
              BZXF,SERS          -ERR IF XF NOT 1 AS IT SHOULD BE        1304.23 40           023244.00
          LC,$X1,XCSZ5           -REFILL INTO COUNT FIELD                21756.02 50          023244.40
          KC,$X1,XCSZ1           -TEST BITS 46-63                        21753.03 90          023245.00
          SIC,SEN                                                        1310.00 80           023245.40
              BZXE,SERS          -ERR IF BIT LOST                        1304.32 C0           023246.00
          LX,$X1,XCSZ2                                                   21754.02 10          023246.40
              NOP                -RESTORE IX REG.                        0.30 00              023247.00
          NOP,0                                                         0.30 00              023247.40
XCS8C     LX,$X2,XCSZ2                                                   21754.04 10          023250.00
              LX,$X2,XCSZ2       -LOAD WITH ZEROS N TIMES %2¤            21754.04 10          023250.40
          LX,$X2,XCSZ2                                                   21754.04 10          023251.00
              LX,$X2,XCSZ2                                               21754.04 10          023251.40
          LX,$X2,XCSZ2                                                   21754.04 10          023252.00
              LX,$X2,XCSZ2                                               21754.04 10          023252.40
          LX,$X2,XCSZ2                                                   21754.04 10          023253.00
              LX,$X2,XCSZ2                                               21754.04 10          023253.40
          LX,$X2,XCSZ2                                                   21754.04 10          023254.00
              LX,$X2,XCSZ2                                               21754.04 10          023254.40
          LX,$X2,XCSZ2                                                   21754.04 10          023255.00
              LX,$X2,XCSZ2                                               21754.04 10          023255.40
          LX,$X2,XCSZ2                                                   21754.04 10          023256.00
              LX,$X2,XCSZ2                                               21754.04 10          023256.40
          LX,$X2,XCSZ2                                                   21754.04 10          023257.00
              LX,$X2,XCSZ2                                               21754.04 10          023257.40
          LX,$X2,XCSZ2                                                   21754.04 10          023260.00
              LX,$X2,XCSZ2                                               21754.04 10          023260.40
          LX,$X2,XCSZ2                                                   21754.04 10          023261.00
              LX,$X2,XCSZ2                                               21754.04 10          023261.40
          LX,$X2,XCSZ1           -LOAD ONCE WITH ONES                    21753.04 10          023262.00
XCS8C1    KV,$X2,XCSZ1           -TEST BITS 0-24                         21753.04 90          023262.40
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        SIC,SEN                                                     1310.00 80        023263.00
            BZXEZ,SERS        -ERR IF BIT LOST                      1304.32 C4        023263.40
        KC,$X2,XCSZ1          -TEST BITS 28-45                      21753.05 90       023264.00
        SIC,SEN                                                     1310.00 80        023264.40
            BZXE,SERS         -ERR IF IX BITS DONT COMPARE          1304.32 C0        023265.00
        SR,$X2,XCSZ5          -REFILL TO WORK AREA                  21756.05 70       023265.40
        SIC,SEN                                                     1310.00 80        023266.00
            BZXF,SERS         -ERR IF XF NOT 1 AS IT SHOULD BE      1304.23 40        023266.40
        LC,$X2,XCSZ5          -REFILL INTO COUNT FIELD              21756.04 50       023267.00
        KC,$X2,XCSZ1          -TEST BITS 46-63                      21753.05 90       023267.40
        SIC,SEN                                                     1310.00 80        023270.00
            BZXE,SERS         -ERR IF BIT LOST                      1304.32 C0        023270.40
        LX,$X2,XCSZ2                                                21754.04 10       023271.00
            NOP               -RESTORE IX REG.                      0.30 00           023271.40
        NOP,0                                                       0.30 00           023272.00
XCS8D   LX,$X3,XCSZ2                             .                  21754.06 10       023272.40
            LX,$X3,XCSZ2      -LOAD WITH ZEROS N TIMES %3¤          21754.06 10       023273.00
        LX,$X3,XCSZ2                                                21754.06 10       023273.40
            LX,$X3,XCSZ2                                            21754.06 10       023274.00
        LX,$X3,XCSZ2                                                21754.06 10       023274.40
            LX,$X3,XCSZ2                                            21754.06 10       023275.00
        LX,$X3,XCSZ2                                                21754.06 10       023275.40
            LX,$X3,XCSZ2                                            21754.06 10       023276.00
        LX,$X3,XCSZ2                                                21754.06 10       023276.40
            LX,$X3,XCSZ2                                            21754.06 10       023277.00
        LX,$X3,XCSZ2                                                21754.06 10       023277.40
            LX,$X3,XCSZ2                                            21754.06 10       023300.00
        LX,$X3,XCSZ2                                                21754.06 10       023300.40
            LX,$X3,XCSZ2                                            21754.06 10       023301.00
        LX,$X3,XCSZ2                                                21754.06 10       023301.40
            LX,$X3,XCSZ2                                            21754.06 10       023302.00
        LX,$X3,XCSZ2                                                21754.06 10       023302.40
            LX,$X3,XCSZ2                                            21754.06 10       023303.00
        LX,$X3,XCSZ2                                                21754.06 10       023303.40
            LX,$X3,XCSZ2                                            21754.06 10       023304.00
        LX,$X3,XCSZ1         -LOAD ONCE WITH ONES                   21753.06 10       023304.40
XCS8D1  KV,$X3,XCSZ1         -TEST BITS 0-24                        21753.06 90       023305.00
        SIC,SEN                                                     1310.00 80        023305.40
            BZXEZ,SERS       -ERR IF BIT LOST                       1304.32 C4        023306.00
        KC,$X3,XCSZ1         -TEST BITS 28-45                       21753.07 90       023306.40
        SIC,SEN                                                     1310.00 80        023307.00
            BZXE,SERS        -ERR IF IX BITS DONT COMPARE           1304.32 C0        023307.40
        SR,$X3,XCSZ5         -REFILL TO WORK AREA                   21756.07 70       023310.00
        SIC,SEN                                                     1310.00 80        023310.40
            BZXF,SERS        -ERR IF XF NOT 1 AS IT SHOULD BE       1304.23 40        023311.00
        LC,$X3,XCSZ5         -REFILL INTO COUNT FIELD               21756.06 50       023311.40
        KC,$X3,XCSZ1         -TEST BITS 46-63                       21753.07 90       023312.00
        SIC,SEN                                                     1310.00 80        023312.40
            BZXE,SERS        -ERR IF BIT LOST                       1304.32 C0        023313.00
        LX,$X3,XCSZ2                                                21754.06 10       023313.40
            NOP              -RESTORE IX REG.                       0.30 00           023314.00
        NOP,0                                                       0.30 00           023314.40
XCS8E   LX,$X4,XCSZ2                                                21754.10 10       023315.00
            LX,$X4,XCSZ2     -LOAD WITH ZEROS N TIMES %4¤           21754.10 10       023315.40
        LX,$X4,XCSZ2                                                21754.10 10       023316.00
            LX,$X4,XCSZ2                                            21754.10 10       023316.40
        LX,$X4,XCSZ2                                                21754.10 10       023317.00
            LX,$X4,XCSZ2                                            21754.10 10       023317.40
        LX,$X4,XCSZ2                                                21754.10 10       023320.00
            LX,$X4,XCSZ2                                            21754.10 10       023320.40
        LX,$X4,XCSZ2                                                21754.10 10       023321.00
            LX,$X4,XCSZ2                                            21754.10 10       023321.40
        LX,$X4,XCSZ2                                                21754.10 10       023322.00
            LX,$X4,XCSZ2                                            21754.10 10       023322.40
        LX,$X4,XCSZ2                                                21754.10 10       023323.00
            LX,$X4,XCSZ2                                            21754.10 10       023323.40
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        LX,$X4,XCSZ2                                                     21754.10 10              023324.40
                    LX,$X4,XCSZ2                                         21754.10 10              023325.00
        LX,$X4,XCSZ2                                                     21754.10 10              023325.40
                    LX,$X4,XCSZ2                                         21754.10 10              023326.00
        LX,$X4,XCSZ2                                                     21754.10 10              023326.40
        LX,$X4,XCSZ1            -LOAD ONCE WITH ONES                     21753.10 10              023327.00
XCS8E1  KV,$X4,XCSZ1            -TEST BITS 0-24                          21753.10 90              023327.40
        SIC,SEN                                                         1310.00 80               023330.00
            BZXEZ,SERS         -ERR IF BIT PICKED UP/OR LOST            1304.32 C4               023330.40
        KC,$X4,XCSZ1           -TEST BITS 28-45                         21753.11 90              023331.00
        SIC,SEN                                                         1310.00 80               023331.40
            BZXE,SERS          -ERR IF IX BITS DONT COMPARE             1304.32 C0               023332.00
        SR,$X4,XCSZ5           -REFILL TO WORK AREA                     21756.11 70              023332.40
        SIC,SEN                                                         1310.00 80               023333.00
            BZXF,SERS          -ERR IF XF NOT 1 AS IT SHOULD BE         1304.23 40               023333.40
        LC,$X4,XCSZ5           -REFILL INTO COUNT FIELD                 21756.10 50              023334.00
        KC,$X4,XCSZ1           -TEST BITS 46-63                         21753.11 90              023334.40
        SIC,SEN                                                         1310.00 80               023335.00
            BZXE,SERS          -ERR IF BIT LOST                         1304.32 C0               023335.40
        LX,$X4,XCSZ2                                                     21754.10 10              023336.00
                    NOP        -RESTORE IX REG.                         0.30 00                  023336.40
        NOP,0                                                           0.30 00                  023337.00
XCS8F   LX,$X5,XCSZ2                                                     21754.12 10              023337.40
                    LX,$X5,XCSZ2   -LOAD WITH ZEROS N TIMES %5¤         21754.12 10              023340.00
        LX,$X5,XCSZ2                                                     21754.12 10              023340.40
                    LX,$X5,XCSZ2                                         21754.12 10              023341.00
        LX,$X5,XCSZ2                                                     21754.12 10              023341.40
                    LX,$X5,XCSZ2                                         21754.12 10              023342.00
        LX,$X5,XCSZ2                                                     21754.12 10              023342.40
                    LX,$X5,XCSZ2                                         21754.12 10              023343.00
        LX,$X5,XCSZ2                                                     21754.12 10              023343.40
                    LX,$X5,XCSZ2                                         21754.12 10              023344.00
        LX,$X5,XCSZ2                                                     21754.12 10              023344.40
                    LX,$X5,XCSZ2                                         21754.12 10              023345.00
        LX,$X5,XCSZ2                                                     21754.12 10              023345.40
                    LX,$X5,XCSZ2                                         21754.12 10              023346.00
        LX,$X5,XCSZ2                                                     21754.12 10              023346.40
                    LX,$X5,XCSZ2                                         21754.12 10              023347.00
        LX,$X5,XCSZ2                                                     21754.12 10              023347.40
                    LX,$X5,XCSZ2                                         21754.12 10              023350.00
        LX,$X5,XCSZ2                                                     21754.12 10              023350.40
                    LX,$X5,XCSZ2                                         21754.12 10              023351.00
        LX,$X5,XCSZ1           -LOAD ONCE WITH ONES                     21753.12 10              023351.40
XCS8F1  KV,$X5,XCSZ1           -TEST BITS 0-24                          21753.12 90              023352.00
        SIC,SEN                                                         1310.00 80               023352.40
            BZXEZ,SERS         -ERR IF BIT LOST                         1304.32 C4               023353.00
        KC,$X5,XCSZ1           -TEST BITS 28-45                         21753.13 90              023353.40
        SIC,SEN                                                         1310.00 80               023354.00
            BZXE,SERS          -ERR IF IX BITS DONT COMPARE             1304.32 C0               023354.40
        SR,$X5,XCSZ5           -REFILL TO WORK AREA                     21756.13 70              023355.00
        SIC,SEN                                                         1310.00 80               023355.40
            BZXF,SERS          -ERR IF XF NOT 1 AS IT SHOULD BE         1304.23 40               023356.00
        LC,$X5,XCSZ5           -REFILL INTO COUNT FIELD                 21756.12 50              023356.40
        KC,$X5,XCSZ1           -TEST BITS 46-63                         21753.13 90              023357.00
        SIC,SEN                                                         1310.00 80               023357.40
            BZXE,SERS          -ERR IF BIT LOST                         1304.32 C0               023360.00
        LX,$X5,XCSZ2                                                     21754.12 10              023360.40
                    NOP        -RESTORE IX REG.                         0.30 00                  023361.00
        NOP,0                                                           0.30 00                  023361.40
XCS8G   LX,$X6,XCSZ2                                                     21754.14 10              023362.00
                    LX,$X6,XCSZ2   -LOAD WITH ZEROS N TIMES %6¤         21754.14 10              023362.40
        LX,$X6,XCSZ2                                                     21754.14 10              023363.00
                    LX,$X6,XCSZ2                                         21754.14 10              023363.40
        LX,$X6,XCSZ2                                                     21754.14 10              023364.00
                    LX,$X6,XCSZ2                                         21754.14 10              023364.40
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           LX,$X6,XCSZ2                                                      21754.14 10              023365.00
                   LX,$X6,XCSZ2                                              21754.14 10              023365.40
           LX,$X6,XCSZ2                                                      21754.14 10              023366.00
                   LX,$X6,XCSZ2                                              21754.14 10              023366.40
           LX,$X6,XCSZ2                                                      21754.14 10              023367.00
                   LX,$X6,XCSZ2                                              21754.14 10              023367.40
           LX,$X6,XCSZ2                                                      21754.14 10              023370.00
                   LX,$X6,XCSZ2                                              21754.14 10              023370.40
           LX,$X6,XCSZ2                                                      21754.14 10              023371.00
                   LX,$X6,XCSZ2                                              21754.14 10              023371.40
           LX,$X6,XCSZ2                                                      21754.14 10              023372.00
                   LX,$X6,XCSZ2                                              21754.14 10              023372.40
           LX,$X6,XCSZ2                                                      21754.14 10              023373.00
                   LX,$X6,XCSZ2                                              21754.14 10              023373.40
           LX,$X6,XCSZ1            -LOAD ONCE WITH ONES                      21753.14 10              023374.00
XCS8G1     KV,$X6,XCSZ1            -TEST BITS 0-24                           21753.14 90              023374.40
           SIC,SEN                                                          1310.00 80               023375.00
                   BZXEZ,SERS     -ERR IF BIT LOST                          1304.32 C4               023375.40
           KC,$X6,XCSZ1            -TEST BITS 28-45                          21753.15 90              023376.00
           SIC,SEN                                                          1310.00 80               023376.40
                   BZXE,SERS      -ERR IF IX BITS DONT COMPARE              1304.32 C0               023377.00
           SR,$X6,XCSZ5            -REFILL TO WORK AREA                      21756.15 70              023377.40
           SIC,SEN                                                          1310.00 80               023400.00
                   BZXF,SERS      -ERR IF XF NOT 1 AS IT SHOULD BE          1304.23 40               023400.40
           LC,$X6,XCSZ5            -REFILL INTO COUNT FIELD                  21756.14 50              023401.00
           KC,$X6,XCSZ1            -TEST BITS 46-63                          21753.15 90              023401.40
           SIC,SEN                                                          1310.00 80               023402.00
                   BZXE,SERS      -ERR IF BIT LOST                          1304.32 C0               023402.40
           LX,$X6,XCSZ2                                                      21754.14 10              023403.00
                   NOP            -RESTORE IX REG.                           0.30 00                  023403.40
           NOP,0                                                            0.30 00                  023404.00
XCS8H      LX,$X7,XCSZ2                                                      21754.16 10              023404.40
                   LX,$X7,XCSZ2   -LOAD WITH ZEROS N TIMES %7¤               21754.16 10              023405.00
           LX,$X7,XCSZ2                                                      21754.16 10              023405.40
                   LX,$X7,XCSZ2                                              21754.16 10              023406.00
           LX,$X7,XCSZ2                                                      21754.16 10              023406.40
                   LX,$X7,XCSZ2                                              21754.16 10              023407.00
           LX,$X7,XCSZ2                                                      21754.16 10              023407.40
                   LX,$X7,XCSZ2                                              21754.16 10              023410.00
           LX,$X7,XCSZ2                                                      21754.16 10              023410.40
                   LX,$X7,XCSZ2                                              21754.16 10              023411.00
           LX,$X7,XCSZ2                                                      21754.16 10              023411.40
                   LX,$X7,XCSZ2                                              21754.16 10              023412.00
           LX,$X7,XCSZ2                                                      21754.16 10              023412.40
                   LX,$X7,XCSZ2                                              21754.16 10              023413.00
           LX,$X7,XCSZ2                                                      21754.16 10              023413.40
                   LX,$X7,XCSZ2                                              21754.16 10              023414.00
           LX,$X7,XCSZ2                                                      21754.16 10              023414.40
                   LX,$X7,XCSZ2                                              21754.16 10              023415.00
           LX,$X7,XCSZ2                                                      21754.16 10              023415.40
                   LX,$X7,XCSZ2                                              21754.16 10              023416.00
           LX,$X7,XCSZ1            -LOAD ONCE WITH ONES                      21753.16 10              023416.40
XCS8H1     KV,$X7,XCSZ1            -TEST BITS 0-24                           21753.16 90              023417.00
           SIC,SEN                                                          1310.00 80               023417.40
                   BZXEZ,SERS     -ERR IF BIT LOST                          1304.32 C4               023420.00
           KC,$X7,XCSZ1            -TEST BITS 28-45                          21753.17 90              023420.40
           SIC,SEN                                                          1310.00 80               023421.00
                   BZXE,SERS      -ERR IF IX BITS DONT COMPARE              1304.32 C0               023421.40
           SR,$X7,XCSZ5            -REFILL TO WORK AREA                      21756.17 70              023422.00
           SIC,SEN                                                          1310.00 80               023422.40
                   BZXF,SERS      -ERR IF XF NOT 1 AS IT SHOULD BE          1304.23 40               023423.00
           LC,$X7,XCSZ5            -REFILL INTO COUNT FIELD                  21756.16 50              023423.40
           KC,$X7,XCSZ1            -TEST BITS 46-63                          21753.17 90              023424.00
           SIC,SEN                                                          1310.00 80               023424.40
                   BZXE,SERS      -ERR IF BIT LOST                          1304.32 C0               023425.00
           LX,$X7,XCSZ2                                                      21754.16 10              023425.40
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                         NOP              -RESTORE IX REG.                          0.30 00           023426.00
           NOP,0                                                                    0.30 00           023426.40
XCS8J      LX,$X8,XCSZ2                                                             21754.20 10        023427.00
                         LX,$X8,XCSZ2     -LOAD WITH ZEROS N TIMES %8¤              21754.20 10        023427.40
           LX,$X8,XCSZ2                                                             21754.20 10        023430.00
                         LX,$X8,XCSZ2                                               21754.20 10        023430.40
           LX,$X8,XCSZ2                                                             21754.20 10        023431.00
                         LX,$X8,XCSZ2                                               21754.20 10        023431.40
           LX,$X8,XCSZ2                                                             21754.20 10        023432.00
                         LX,$X8,XCSZ2                                               21754.20 10        023432.40
           LX,$X8,XCSZ2                                                             21754.20 10        023433.00
                         LX,$X8,XCSZ2                                               21754.20 10        023433.40
           LX,$X8,XCSZ2                                                             21754.20 10        023434.00
                         LX,$X8,XCSZ2                                               21754.20 10        023434.40
           LX,$X8,XCSZ2                                                             21754.20 10        023435.00
                         LX,$X8,XCSZ2                                               21754.20 10        023435.40
           LX,$X8,XCSZ2                                                             21754.20 10        023436.00
                         LX,$X8,XCSZ2                                               21754.20 10        023436.40
           LX,$X8,XCSZ2                                                             21754.20 10        023437.00
                         LX,$X8,XCSZ2                                               21754.20 10        023437.40
           LX,$X8,XCSZ2                                                             21754.20 10        023440.00
                         LX,$X8,XCSZ2                                               21754.20 10        023440.40
           LX,$X8,XCSZ1                  -LOAD ONCE WITH ONES                       21753.20 10        023441.00
XCS8J1     KV,$X8,XCSZ1                  -TEST BITS 0-24                            21753.20 90        023441.40
           SIC,SEN                                                                  1310.00 80         023442.00
                         BZXEZ,SERS      -ERR IF BIT LOST                           1304.32 C4         023442.40
           KC,$X8,XCSZ1                  -TEST BITS 28-45                           21753.21 90        023443.00
           SIC,SEN                                                                  1310.00 80         023443.40
                         BZXE,SERS       -ERR IF IX BITS DONT COMPARE              1304.32 C0         023444.00
           SR,$X8,XCSZ5                  -REFILL TO WORK AREA                       21756.21 70        023444.40
           SIC,SEN                                                                  1310.00 80         023445.00
                         BZXF,SERS       -ERR IF XF NOT 1 AS IT SHOULD BE          1304.23 40         023445.40
           LC,$X8,XCSZ5                  -REFILL INTO COUNT FIELD                   21756.20 50        023446.00
           KC,$X8,XCSZ1                  -TEST BITS 46-63                           21753.21 90        023446.40
           SIC,SEN                                                                  1310.00 80         023447.00
                         BZXE,SERS       -ERR IF BIT LOST                           1304.32 C0         023447.40
           LX,$X8,XCSZ2                                                             21754.20 10        023450.00
                         NOP              -RESTORE IX REG.                          0.30 00            023450.40
           NOP,0                                                                    0.30 00            023451.00
XCS8K      LX,$X9,XCSZ2                                                             21754.22 10        023451.40
                         LX,$X9,XCSZ2     -LOAD WITH ZEROS N TIMES %9¤              21754.22 10        023452.00
           LX,$X9,XCSZ2                                                             21754.22 10        023452.40
                         LX,$X9,XCSZ2                                               21754.22 10        023453.00
           LX,$X9,XCSZ2                                                             21754.22 10        023453.40
                         LX,$X9,XCSZ2                                               21754.22 10        023454.00
           LX,$X9,XCSZ2                                                             21754.22 10        023454.40
                         LX,$X9,XCSZ2                                               21754.22 10        023455.00
           LX,$X9,XCSZ2                                                             21754.22 10        023455.40
                         LX,$X9,XCSZ2                                               21754.22 10        023456.00
           LX,$X9,XCSZ2                                                             21754.22 10        023456.40
                         LX,$X9,XCSZ2                                               21754.22 10        023457.00
           LX,$X9,XCSZ2                                                             21754.22 10        023457.40
                         LX,$X9,XCSZ2                                               21754.22 10        023460.00
           LX,$X9,XCSZ2                                                             21754.22 10        023460.40
                         LX,$X9,XCSZ2                                               21754.22 10        023461.00
           LX,$X9,XCSZ2                                                             21754.22 10        023461.40
                         LX,$X9,XCSZ2                                               21754.22 10        023462.00
           LX,$X9,XCSZ2                                                             21754.22 10        023462.40
                         LX,$X9,XCSZ2                                               21754.22 10        023463.00
           LX,$X9,XCSZ1                  -LOAD ONCE WITH ONES.                      21753.22 10        023463.40
XCS8K1     KV,$X9,XCSZ1                  -TEST BITS 0-24                            21753.22 90        023464.00
           SIC,SEN                                                                  1310.00 80         023464.40
                         BZXEZ,SERS      -ERR IF BIT LOST                           1304.32 C4         023465.00
           KC,$X9,XCSZ1                  -TEST BITS 28-45                           21753.23 90        023465.40
           SIC,SEN                                                                  1310.00 80         023466.00
                         BZXE,SERS       -ERR IF IX BITS DONT COMPARE              1304.32 C0         023466.40
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        SR,$X9,XCSZ5                     -REFILL TO WORK AREA                21756.23 70        023467.00
        SIC,SEN                                                             1310.00 80         023467.40
            BZXF,SERS                    -ERR IF XF NOT 1 AS IT SHOULD BE   1304.23 40         023470.00
        LC,$X9,XCSZ5                     -REFILL INTO COUNT FIELD           21756.22 50        023470.40
        KC,$X9,XCSZ1                     -TEST BITS 46-63                   21753.23 90        023471.00
        SIC,SEN                                                             1310.00 80         023471.40
            BZXE,SERS                    -ERR IF BIT LOST                   1304.32 C0         023472.00
        LX,$X9,XCSZ2                                                        21754.22 10        023472.40
            NOP                          -RESTORE IX REG.                   0.30 00            023473.00
        NOP,0                                                               0.30 00            023473.40
XCS8L   LX,$X10,XCSZ2                                                       21754.24 10        023474.00
            LX,$X10,XCSZ2               -LOAD WITH ZEROS N TIMES %10¤      21754.24 10        023474.40
        LX,$X10,XCSZ2                                                       21754.24 10        023475.00
            LX,$X10,XCSZ2                                                   21754.24 10        023475.40
        LX,$X10,XCSZ2                                                       21754.24 10        023476.00
            LX,$X10,XCSZ2                                                   21754.24 10        023476.40
        LX,$X10,XCSZ2                                                       21754.24 10        023477.00
            LX,$X10,XCSZ2                                                   21754.24 10        023477.40
        LX,$X10,XCSZ2                                                       21754.24 10        023500.00
            LX,$X10,XCSZ2                                                   21754.24 10        023500.40
        LX,$X10,XCSZ2                                                       21754.24 10        023501.00
            LX,$X10,XCSZ2                                                   21754.24 10        023501.40
        LX,$X10,XCSZ2                                                       21754.24 10        023502.00
            LX,$X10,XCSZ2                                                   21754.24 10        023502.40
        LX,$X10,XCSZ2                                                       21754.24 10        023503.00
            LX,$X10,XCSZ2                                                   21754.24 10        023503.40
        LX,$X10,XCSZ2                                                       21754.24 10        023504.00
            LX,$X10,XCSZ2                                                   21754.24 10        023504.40
        LX,$X10,XCSZ2                                                       21754.24 10        023505.00
            LX,$X10,XCSZ2                                                   21754.24 10        023505.40
        LX,$X10,XCSZ1                    -LOAD ONCE WITH ONES               21753.24 10        023506.00
XCS8L1  KV,$X10,XCSZ1                    -TEST BITS 0-24                    21753.24 90        023506.40
        SIC,SEN                                                             1310.00 80         023507.00
            BZXEZ,SERS                   -ERR IF BIT LOST                   1304.32 C4         023507.40
        KC,$X10,XCSZ1                    -TEST BITS 28-45                   21753.25 90        023510.00
        SIC,SEN                                                             1310.00 80         023510.40
            BZXE,SERS                    -ERR IF IX BITS DONT COMPARE       1304.32 C0         023511.00
        SR,$X10,XCSZ5                    -REFILL TO WORK AREA               21756.25 70        023511.40
        SIC,SEN                                                             1310.00 80         023512.00
            BZXF,SERS                    -ERR IF XF NOT 1 AS IT SHOULD BE   1304.23 40         023512.40
        LC,$X10,XCSZ5                    -REFILL INTO COUNT FIELD           21756.24 50        023513.00
        KC,$X10,XCSZ1                    -TEST BITS 46-63                   21753.25 90        023513.40
        SIC,SEN                                                             1310.00 80         023514.00
            BZXE,SERS                    -ERR IF BIT LOST                   1304.32 C0         023514.40
        LX,$X10,XCSZ2                                                       21754.24 10        023515.00
            NOP                          -RESTORE IX REG.                   0.30 00            023515.40
        NOP,0                                                               0.30 00            023516.00
XCS8M   LX,$X11,XCSZ2                                                       21754.26 10        023516.40
            LX,$X11,XCSZ2              -LOAD WITH ZEROS N TIMES %11¤       21754.26 10        023517.00
        LX,$X11,XCSZ2                                                       21754.26 10        023517.40
            LX,$X11,XCSZ2                                                   21754.26 10        023520.00
        LX,$X11,XCSZ2                                                       21754.26 10        023520.40
            LX,$X11,XCSZ2                                                   21754.26 10        023521.00
        LX,$X11,XCSZ2                                                       21754.26 10        023521.40
            LX,$X11,XCSZ2                                                   21754.26 10        023522.00
        LX,$X11,XCSZ2                                                       21754.26 10        023522.40
            LX,$X11,XCSZ2                                                   21754.26 10        023523.00
        LX,$X11,XCSZ2                                                       21754.26 10        023523.40
            LX,$X11,XCSZ2                                                   21754.26 10        023524.00
        LX,$X11,XCSZ2                                                       21754.26 10        023524.40
            LX,$X11,XCSZ2                                                   21754.26 10        023525.00
        LX,$X11,XCSZ2                                                       21754.26 10        023525.40
            LX,$X11,XCSZ2                                                   21754.26 10        023526.00
        LX,$X11,XCSZ2                                                       21754.26 10        023526.40
            LX,$X11,XCSZ2                                                   21754.26 10        023527.00
        LX,$X11,XCSZ2                                                       21754.26 10        023527.40
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                        LX,$X11,XCSZ2                                              21754.26 10                        023530.00
              LX,$X11,XCSZ1           -LOAD ONCE WITH ONES              21753.26 10                        023530.40
XCS8M1        KV,$X11,XCSZ1           -TEST BITS 0-24                   21753.26 90                        023531.00
              SIC,SEN                                                   1310.00 80                         023531.40
                        BZXEZ,SERS    -ERR IF BIT LOST                  1304.32 C4                         023532.00
              KC,$X11,XCSZ1           -TEST BITS 28-45                  21753.27 90                        023532.40
              SIC,SEN                                                   1310.00 80                         023533.00
                        BZXE,SERS     -ERR IF IX BITS DONT COMPARE      1304.32 C0                         023533.40
              SR,$X11,XCSZ5           -REFILL TO WORK AREA              21756.27 70                        023534.00
              SIC,SEN                                                   1310.00 80                         023534.40
                        BZXF,SERS     -ERR IF XF NOT 1 AS IT SHOULD BE  1304.23 40                         023535.00
              LC,$X11,XCSZ5           -REFILL INTO COUNT FIELD          21756.26 50                        023535.40
              KC,$X11,XCSZ1           -TEST BITS 46-63                  21753.27 90                        023536.00
              SIC,SEN                                                   1310.00 80                         023536.40
                        BZXE,SERS     -ERR IF BIT LOST                  1304.32 C0                         023537.00
              LX,$X11,XCSZ2                                             21754.26 10                        023537.40
                        NOP           -RESTORE IX REG.                  0.30 00                            023540.00
              NOP,0                                                     0.30 00                            023540.40
XCS8N         LX,$X12,XCSZ2                                             21754.30 10                        023541.00
                        LX,$X12,XCSZ2 -LOAD WITH ZEROS N TIMES %12¤     21754.30 10                        023541.40
              LX,$X12,XCSZ2                                             21754.30 10                        023542.00
                        LX,$X12,XCSZ2                                   21754.30 10                        023542.40
              LX,$X12,XCSZ2                                             21754.30 10                        023543.00
                        LX,$X12,XCSZ2                                   21754.30 10                        023543.40
              LX,$X12,XCSZ2                                             21754.30 10                        023544.00
                        LX,$X12,XCSZ2                                   21754.30 10                        023544.40
              LX,$X12,XCSZ2                                             21754.30 10                        023545.00
                        LX,$X12,XCSZ2                                   21754.30 10                        023545.40
              LX,$X12,XCSZ2                                             21754.30 10                        023546.00
                        LX,$X12,XCSZ2                                   21754.30 10                        023546.40
              LX,$X12,XCSZ2                                             21754.30 10                        023547.00
                        LX,$X12,XCSZ2                                   21754.30 10                        023547.40
              LX,$X12,XCSZ2                                             21754.30 10                        023550.00
                        LX,$X12,XCSZ2                                   21754.30 10                        023550.40
              LX,$X12,XCSZ2                                             21754.30 10                        023551.00
                        LX,$X12,XCSZ2                                   21754.30 10                        023551.40
              LX,$X12,XCSZ2                                             21754.30 10                        023552.00
                        LX,$X12,XCSZ2                                   21754.30 10                        023552.40
              LX,$X12,XCSZ1           -LOAD ONCE WITH ONES              21753.30 10                        023553.00
XCS8N1        KV,$X12,XCSZ1           -TEST BITS 0-24                   21753.30 90                        023553.40
              SIC,SEN                                                   1310.00 80                         023554.00
                        BZXEZ,SERS    -ERR IF BIT LOST                  1304.32 C4                         023554.40
              KC,$X12,XCSZ1           -TEST BITS 28-45                  21753.31 90                        023555.00
              SIC,SEN                                                   1310.00 80                         023555.40
                        BZXE,SERS     -ERR IF IX BITS DONT COMPARE      1304.32 C0                         023556.00
              SR,$X12,XCSZ5           -REFILL TO WORK AREA              21756.31 70                        023556.40
              SIC,SEN                                                   1310.00 80                         023557.00
                        BZXF,SERS     -ERR IF XF NOT 1 AS IT SHOULD BE  1304.23 40                         023557.40
              LC,$X12,XCSZ5           -REFILL INTO COUNT FIELD          21756.30 50                        023560.00
              KC,$X12,XCSZ1           -TEST BITS 46-63                  21753.31 90                        023560.40
              SIC,SEN                                                   1310.00 80                         023561.00
                        BZXE,SERS     -ERR IF BIT LOST                  1304.32 C0                         023561.40
              LX,$X12,XCSZ2                                             21754.30 10                        023562.00
                        NOP           -RESTORE IX REG.                  0.30 00                            023562.40
              NOP,0                                                     0.30 00                            023563.00
XCS8P         LX,$X13,XCSZ2                                             21754.32 10                        023563.40
                        LX,$X13,XCSZ2 -LOAD WITH ZEROS N TIMES %13¤     21754.32 10                        023564.00
              LX,$X13,XCSZ2                                             21754.32 10                        023564.40
                        LX,$X13,XCSZ2                                   21754.32 10                        023565.00
              LX,$X13,XCSZ2                                             21754.32 10                        023565.40
                        LX,$X13,XCSZ2                                   21754.32 10                        023566.00
              LX,$X13,XCSZ2                                             21754.32 10                        023566.40
                        LX,$X13,XCSZ2                                   21754.32 10                        023567.00
              LX,$X13,XCSZ2                                             21754.32 10                        023567.40
                        LX,$X13,XCSZ2                                   21754.32 10                        023570.00
              LX,$X13,XCSZ2                                             21754.32 10                        023570.40
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                        LX,$X13,XCSZ2                                          21754.32 10              023571.00
        LX,$X13,XCSZ2                                                         21754.32 10              023571.40
                        LX,$X13,XCSZ2                                          21754.32 10              023572.00
        LX,$X13,XCSZ2                                                         21754.32 10              023572.40
                        LX,$X13,XCSZ2                                          21754.32 10              023573.00
        LX,$X13,XCSZ2                                                         21754.32 10              023573.40
                        LX,$X13,XCSZ2                                          21754.32 10              023574.00
        LX,$X13,XCSZ2                                                         21754.32 10              023574.40
                        LX,$X13,XCSZ2                                          21754.32 10              023575.00
        LX,$X13,XCSZ1           -LOAD ONCE WITH ONES                          21753.32 10              023575.40
XCS8P1  KV,$X13,XCSZ1           -TEST BITS 0-24                               21753.32 90              023576.00
        SIC,SEN                                                               1310.00 80               023576.40
            BZXEZ,SERS          -ERR IF BIT LOST                             1304.32 C4               023577.00
        KC,$X13,XCSZ1           -TEST BITS 28-45                              21753.33 90              023577.40
        SIC,SEN                                                               1310.00 80               023600.00
            BZXE,SERS           -ERR IF IX BITS DONT COMPARE                  1304.32 C0               023600.40
        SR,$X13,XCSZ5           -REFILL TO WORK AREA                          21756.33 70              023601.00
        SIC,SEN                                                               1310.00 80               023601.40
            BZXF,SERS           -ERR IF XF NOT 1 AS IT SHOULD BE              1304.23 40               023602.00
        LC,$X13,XCSZ5           -REFILL INTO COUNT FIELD                      21756.32 50              023602.40
        KC,$X13,XCSZ1           -TEST BITS 46-63                              21753.33 90              023603.00
        SIC,SEN                                                               1310.00 80               023603.40
            BZXE,SERS           -ERR IF BIT LOST                             1304.32 C0               023604.00
        LX,$X13,XCSZ2                                                         21754.32 10              023604.40
                        NOP     -RESTORE IX REG.                              0.30 00                  023605.00
        NOP,0                                                                 0.30 00                  023605.40
XCS8Q   LX,$X14,XCSZ2                                                         21754.34 10              023606.00
                        LX,$X14,XCSZ2   -LOAD WITH ZEROS N TIMES %14□         21754.34 10              023606.40
        LX,$X14,XCSZ2                                                         21754.34 10              023607.00
                        LX,$X14,XCSZ2                                         21754.34 10              023607.40
        LX,$X14,XCSZ2                                                         21754.34 10              023610.00
                        LX,$X14,XCSZ2                                         21754.34 10              023610.40
        LX,$X14,XCSZ2                                                         21754.34 10              023611.00
                        LX,$X14,XCSZ2                                         21754.34 10              023611.40
        LX,$X14,XCSZ2                                                         21754.34 10              023612.00
                        LX,$X14,XCSZ2                                         21754.34 10              023612.40
        LX,$X14,XCSZ2                                                         21754.34 10              023613.00
                        LX,$X14,XCSZ2                                         21754.34 10              023613.40
        LX,$X14,XCSZ2                                                         21754.34 10              023614.00
                        LX,$X14,XCSZ2                                         21754.34 10              023614.40
        LX,$X14,XCSZ2                                                         21754.34 10              023615.00
                        LX,$X14,XCSZ2                                         21754.34 10              023615.40
        LX,$X14,XCSZ2                                                         21754.34 10              023616.00
                        LX,$X14,XCSZ2                                         21754.34 10              023616.40
        LX,$X14,XCSZ2                                                         21754.34 10              023617.00
                        LX,$X14,XCSZ2                                         21754.34 10              023617.40
        LX,$X14,XCSZ1           -LOAD ONCE WITH ONES                          21753.34 10              023620.00
XCS8Q1  KV,$X14,XCSZ1           -TEST BITS 0-24                               21753.34 90              023620.40
        SIC,SEN                                                               1310.00 80               023621.00
            BZXEZ,SERS          -ERR IF BIT LOST                             1304.32 C4               023621.40
        KC,$X14,XCSZ1           -TEST BITS 28-45                              21753.35 90              023622.00
        SIC,SEN                                                               1310.00 80               023622.40
            BZXE,SERS           -ERR IF IX BITS DONT COMPARE                  1304.32 C0               023623.00
        SR,$X14,XCSZ5           -REFILL TO WORK AREA                          21756.35 70              023623.40
        SIC,SEN                                                               1310.00 80               023624.00
            BZXF,SERS           -ERR IF XF NOT 1 AS IT SHOULD BE              1304.23 40               023624.40
        LC,$X14,XCSZ5           -REFILL INTO COUNT FIELD                      21756.34 50              023625.00
        KC,$X14,XCSZ1           -TEST BITS 46-63                              21753.35 90              023625.40
        SIC,SEN                                                               1310.00 80               023626.00
            BZXE,SERS           -ERR IF BIT LOST                             1304.32 C0               023626.40
        LX,$X14,XCSZ2                                                         21754.34 10              023627.00
                        NOP     -RESTORE IX REG.                              0.30 00                  023627.40
        NOP,0                                                                 0.30 00                  023630.00
XCS8R   LX,$X15,XCSZ2                                                         21754.36 10              023630.40
                        LX,$X15,XCSZ2   -LOAD WITH ZEROS N TIMES %15□         21754.36 10              023631.00
        LX,$X15,XCSZ2                                                         21754.36 10              023631.40
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                    LX,$X15,XCSZ2                                            21754.36 10              023632.00
        LX,$X15,XCSZ2                                                        21754.36 10              023632.40
                    LX,$X15,XCSZ2                                            21754.36 10              023633.00
        LX,$X15,XCSZ2                                                        21754.36 10              023633.40
                    LX,$X15,XCSZ2                                            21754.36 10              023634.00
        LX,$X15,XCSZ2                                                        21754.36 10              023634.40
                    LX,$X15,XCSZ2                                            21754.36 10              023635.00
        LX,$X15,XCSZ2                                                        21754.36 10              023635.40
                    LX,$X15,XCSZ2                                            21754.36 10              023636.00
        LX,$X15,XCSZ2                                                        21754.36 10              023636.40
                    LX,$X15,XCSZ2                                            21754.36 10              023637.00
        LX,$X15,XCSZ2                                                        21754.36 10              023637.40
                    LX,$X15,XCSZ2                                            21754.36 10              023640.00
        LX,$X15,XCSZ2                                                        21754.36 10              023640.40
                    LX,$X15,XCSZ2                                            21754.36 10              023641.00
        LX,$X15,XCSZ2                                                        21754.36 10              023641.40
                    LX,$X15,XCSZ2                                            21754.36 10              023642.00
        LX,$X15,XCSZ1                    -LOAD ONCE WITH ONES                21753.36 10              023642.40
XCS8R1  KV,$X15,XCSZ1                    -TEST BITS 0-24                     21753.36 90              023643.00
        SIC,SEN                                                             1310.00 80               023643.40
            BZXEZ,SERS                   -ERR IF BIT LOST                   1304.32 C4               023644.00
        KC,$X15,XCSZ1                    -TEST BITS 28-45                    21753.37 90              023644.40
        SIC,SEN                                                             1310.00 80               023645.00
            BZXE,SERS                    -ERR IF IX BITS DONT COMPARE       1304.32 C0               023645.40
        SR,$X15,XCSZ5                    -REFILL TO WORK AREA                21756.37 70              023646.00
        SIC,SEN                                                             1310.00 80               023646.40
            BZXF,SERS                    -ERR IF XF NOT 1 AS IT SHOULD BE   1304.23 40               023647.00
        LC,$X15,XCSZ5                    -REFILL INTO COUNT FIELD            21756.36 50              023647.40
        KC,$X15,XCSZ1                    -TEST BITS 46-63                    21753.37 90              023650.00
        SIC,SEN                                                             1310.00 80               023650.40
            BZXE,SERS                    -ERR IF BIT LOST                   1304.32 C0               023651.00
        LX,$X15,XCSZ2                                                        21754.36 10              023651.40
                    NOP                  -RESTORE IX REG.                     0.30 00                 023652.00
        NOP,0                                                                0.30 00                 023652.40
        B,$+1,0                                                             23654.10 00              023653.00
        B,XCS8                           -TO LOOP IN LOW ONES TEST          23173.10 00              023653.40
        SIC,SEN0+.32                                                        1311.40 80               023654.00
            B,SSW                        -TEST SENSE SWITCHES               1301.10 00               023654.40
XCS9    LX,$X0,XCSZ2                                                         21754.00 10              023655.00
            LX,$X1,XCSZ2                 -INITIALIZE BY                      21754.02 10              023655.40
        LX,$X2,XCSZ2                                                         21754.04 10              023656.00
            LX,$X3,XCSZ2                 -SETTING ALL IX                     21754.06 10              023656.40
        LX,$X4,XCSZ2                                                         21754.10 10              023657.00
            LX,$X5,XCSZ2                 -REGS TO ZEROS                      21754.12 10              023657.40
        LX,$X6,XCSZ2                                                         21754.14 10              023660.00
            LX,$X7,XCSZ2                 -PREPARE FOR                        21754.16 10              023660.40
        LX,$X8,XCSZ2                                                         21754.20 10              023661.00
            LX,$X9,XCSZ2                 -LOW ONE                            21754.22 10              023661.40
        LX,$X10,XCSZ2                                                        21754.24 10              023662.00
            LX,$X11,XCSZ2               -%DISTURBED¤                         21754.26 10              023662.40
        LX,$X12,XCSZ2                                                        21754.30 10              023663.00
            LX,$X13,XCSZ2               -TEST                                21754.32 10              023663.40
        LX,$X14,XCSZ2                                                        21754.34 10              023664.00
            LX,$X15,XCSZ2                                                    21754.36 10              023664.40
CS9A    LX,$X0,XCSZ1                     -LOAD WITH ONES ONE TIME %0¤        21753.00 10              023665.00
        SX,$X0,XCSZ5                                                         21756.01 10              023665.40
            SX,$X0,XCSZ5                 -READ IX REG N TIMES                21756.01 10              023666.00
        SX,$X0,XCSZ5                                                         21756.01 10              023666.40
            SX,$X0,XCSZ5                                                     21756.01 10              023667.00
        SX,$X0,XCSZ5                                                         21756.01 10              023667.40
            SX,$X0,XCSZ5                                                     21756.01 10              023670.00
        SX,$X0,XCSZ5                                                         21756.01 10              023670.40
            SX,$X0,XCSZ5                                                     21756.01 10              023671.00
        SX,$X0,XCSZ5                                                         21756.01 10              023671.40
            SX,$X0,XCSZ5                                                     21756.01 10              023672.00
        SX,$X0,XCSZ5                                                         21756.01 10              023672.40
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                    SX,$X0,XCSZ5                                              21756.01 10                    023673.00
         SX,$X0,XCSZ5                                                         21756.01 10                    023673.40
                    SX,$X0,XCSZ5                                              21756.01 10                    023674.00
         SX,$X0,XCSZ5                                                         21756.01 10                    023674.40
                    SX,$X0,XCSZ5                                              21756.01 10                    023675.00
         SX,$X0,XCSZ5                                                         21756.01 10                    023675.40
                    SX,$X0,XCSZ5                                              21756.01 10                    023676.00
         SX,$X0,XCSZ5                                                         21756.01 10                    023676.40
                    SX,$X0,XCSZ5                                              21756.01 10                    023677.00
XCS9A1   KV,$X0,XCSZ1            -TEST BITS 0-24                               21753.00 90                    023677.40
         SIC,SEN                                                              1310.00 80                     023700.00
              BZXEZ,SERS         -ERR IF BIT LOST                             1304.32 C4                     023700.40
         KC,$X0,XCSZ1            -TEST BITS 28-45                              21753.01 90                    023701.00
         SIC,SEN                                                              1310.00 80                     023701.40
              BZXE,SERS          -BITS MUST COMPARE                           1304.32 C0                     023702.00
         SR,$X0,XCSZ5            -REFILL TO WORK AREA                          21756.01 70                    023702.40
         SIC,SEN                                                              1310.00 80                     023703.00
              BZXF,SERS          -ERR IF XF NOT 1 AS IT SHOULD BE             1304.23 40                     023703.40
         LC,$X0,XCSZ5            -REFILL INTO COUNT FIELD                      21756.00 50                    023704.00
         KC,$X0,XCSZ1            -TEST BITS 46-63                              21753.01 90                    023704.40
         SIC,SEN                                                              1310.00 80                     023705.00
              BZXE,SERS          -ERR IF BIT LOST                             1304.32 C0                     023705.40
         LX,$X0,XCSZ2            -RESTORE IX REG.                              21754.00 10                    023706.00
         NOP,0                                                                0.30 00                        023706.40
              NOP,0                                                           0.30 00                        023707.00
XCS9B    LX,$X1,XCSZ1           -LOAD WITH ONES ONE TIME %1¤                  21753.02 10                    023707.40
         SX,$X1,XCSZ5                                                         21756.03 10                    023710.00
              SX,$X1,XCSZ5       -READ IX REG N TIMES                         21756.03 10                    023710.40
         SX,$X1,XCSZ5                                                         21756.03 10                    023711.00
              SX,$X1,XCSZ5                                                    21756.03 10                    023711.40
         SX,$X1,XCSZ5                                                         21756.03 10                    023712.00
              SX,$X1,XCSZ5                                                    21756.03 10                    023712.40
         SX,$X1,XCSZ5                                                         21756.03 10                    023713.00
              SX,$X1,XCSZ5                                                    21756.03 10                    023713.40
         SX,$X1,XCSZ5                                                         21756.03 10                    023714.00
              SX,$X1,XCSZ5                                                    21756.03 10                    023714.40
         SX,$X1,XCSZ5                                                         21756.03 10                    023715.00
              SX,$X1,XCSZ5                                                    21756.03 10                    023715.40
         SX,$X1,XCSZ5                                                         21756.03 10                    023716.00
              SX,$X1,XCSZ5                                                    21756.03 10                    023716.40
         SX,$X1,XCSZ5                                                         21756.03 10                    023717.00
              SX,$X1,XCSZ5                                                    21756.03 10                    023717.40
         SX,$X1,XCSZ5                                                         21756.03 10                    023720.00
              SX,$X1,XCSZ5                                                    21756.03 10                    023720.40
         SX,$X1,XCSZ5                                                         21756.03 10                    023721.00
              SX,$X1,XCSZ5                                                    21756.03 10                    023721.40
XCS9B1   KV,$X1,XCSZ1           -TEST BITS 0-24                               21753.02 90                    023722.00
         SIC,SEN                                                              1310.00 80                     023722.40
              BZXEZ,SERS         -ERR IF BIT LOST                             1304.32 C4                     023723.00
         KC,$X1,XCSZ1            -TEST BITS 28-45                              21753.03 90                    023723.40
         SIC,SEN                                                              1310.00 80                     023724.00
              BZXE,SERS          -BITS MUST COMPARE                           1304.32 C0                     023724.40
         SR,$X1,XCSZ5            -REFILL TO WORK AREA                          21756.03 70                    023725.00
         SIC,SEN                                                              1310.00 80                     023725.40
              BZXF,SERS          -ERR IF XF NOT 1 AS IT SHOULD BE             1304.23 40                     023726.00
         LC,$X1,XCSZ5            -REFILL INTO COUNT FIELD                      21756.02 50                    023726.40
         KC,$X1,XCSZ1            -TEST BITS 46-63                              21753.03 90                    023727.00
         SIC,SEN                                                              1310.00 80                     023727.40
              BZXE,SERS          -ERR IF BIT LOST                             1304.32 C0                     023730.00
         LX,$X1,XCSZ2            -RESTORE IX REG.                              21754.02 10                    023730.40
         NOP,0                                                                0.30 00                        023731.00
              NOP,0                                                           0.30 00                        023731.40
XCS9C    LX,$X2,XCSZ1           -LOAD WITH ONES ONE TIME %2¤                  21753.04 10                    023732.00
         SX,$X2,XCSZ5                                                         21756.05 10                    023732.40
              SX,$X2,XCSZ5       -READ IX REG N TIMES                         21756.05 10                    023733.00
         SX,$X2,XCSZ5                                                         21756.05 10                    023733.40
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                        SX,$X2,XCSZ5                                                  21756.05 10              023734.00
          SX,$X2,XCSZ5                                                                21756.05 10              023734.40
                        SX,$X2,XCSZ5                                                  21756.05 10              023735.00
          SX,$X2,XCSZ5                                                                21756.05 10              023735.40
                        SX,$X2,XCSZ5                                                  21756.05 10              023736.00
          SX,$X2,XCSZ5                                                                21756.05 10              023736.40
                        SX,$X2,XCSZ5                                                  21756.05 10              023737.00
          SX,$X2,XCSZ5                                                                21756.05 10              023737.40
                        SX,$X2,XCSZ5                                                  21756.05 10              023740.00
          SX,$X2,XCSZ5                                                                21756.05 10              023740.40
                        SX,$X2,XCSZ5                                                  21756.05 10              023741.00
          SX,$X2,XCSZ5                                                                21756.05 10              023741.40
                        SX,$X2,XCSZ5                                                  21756.05 10              023742.00
          SX,$X2,XCSZ5                                                                21756.05 10              023742.40
                        SX,$X2,XCSZ5                                                  21756.05 10              023743.00
          SX,$X2,XCSZ5                                                                21756.05 10              023743.40
                        SX,$X2,XCSZ5                                                  21756.05 10              023744.00
XCS9C1    KV,$X2,XCSZ1              -TEST BITS 0-24                                   21753.04 90              023744.40
          SIC,SEN                                                                     1310.00 80              023745.00
                BZXEZ,SERS         -ERR IF BIT LOST                                   1304.32 C4              023745.40
          KC,$X2,XCSZ1             -TEST BITS 28-45                                   21753.05 90              023746.00
          SIC,SEN                                                                     1310.00 80              023746.40
                BZXE,SERS          -BITS MUST COMPARE                                 1304.32 C0              023747.00
          SR,$X2,XCSZ5             -REFILL TO WORK AREA                               21756.05 70              023747.40
          SIC,SEN                                                                     1310.00 80              023750.00
                BZXF,SERS          -ERR IF XF NOT 1 AS IT SHOULD BE  1304.23 40                                023750.40
          LC,$X2,XCSZ5             -REFILL INTO COUNT FIELD                           21756.04 50              023751.00
          KC,$X2,XCSZ1             -TEST BITS 46-63                                   21753.05 90              023751.40
          SIC,SEN                                                                     1310.00 80              023752.00
                BZXE,SERS          -ERR IF BIT LOST                                   1304.32 C0              023752.40
          LX,$X2,XCSZ2             -RESTORE IX REG.                                   21754.04 10              023753.00
          NOP,0                                                                       0.30 00                 023753.40
                NOP,0                                                                 0.30 00                 023754.00
XCS9D     LX,$X3,XCSZ1             -LOAD WITH ONES ONE TIME %3¤                       21753.06 10              023754.40
          SX,$X3,XCSZ5                                                                21756.07 10              023755.00
                        SX,$X3,XCSZ5  -READ IX REG N TIMES                            21756.07 10              023755.40
          SX,$X3,XCSZ5                                                                21756.07 10              023756.00
                        SX,$X3,XCSZ5                                                  21756.07 10              023756.40
          SX,$X3,XCSZ5                                                                21756.07 10              023757.00
                        SX,$X3,XCSZ5                                                  21756.07 10              023757.40
          SX,$X3,XCSZ5                                                                21756.07 10              023760.00
                        SX,$X3,XCSZ5                                                  21756.07 10              023760.40
          SX,$X3,XCSZ5                                                                21756.07 10              023761.00
                        SX,$X3,XCSZ5                                                  21756.07 10              023761.40
          SX,$X3,XCSZ5                                                                21756.07 10              023762.00
                        SX,$X3,XCSZ5                                                  21756.07 10              023762.40
          SX,$X3,XCSZ5                                                                21756.07 10              023763.00
                        SX,$X3,XCSZ5                                                  21756.07 10              023763.40
          SX,$X3,XCSZ5                                                                21756.07 10              023764.00
                        SX,$X3,XCSZ5                                                  21756.07 10              023764.40
          SX,$X3,XCSZ5                                                                21756.07 10              023765.00
                        SX,$X3,XCSZ5                                                  21756.07 10              023765.40
          SX,$X3,XCSZ5                                                                21756.07 10              023766.00
                        SX,$X3,XCSZ5                                                  21756.07 10              023766.40
XCSD91    KV,$X3,XCSZ1             -TEST BITS 0-24                                    21753.06 90              023767.00
          SIC,SEN                                                                     1310.00 80              023767.40
                BZXEZ,SERS         -ERR IF BIT LOST                                   1304.32 C4              023770.00
          KC,$X3,XCSZ1             -TEST BITS 28-45                                   21753.07 90              023770.40
          SIC,SEN                                                                     1310.00 80              023771.00
                BZXE,SERS          -BITS MUST COMPARE                                 1304.32 C0              023771.40
          SR,$X3,XCSZ5             -REFILL TO WORK AREA                               21756.07 70              023772.00
          SIC,SEN                                                                     1310.00 80              023772.40
                BZXF,SERS          -ERR IF XF NOT 1 AS IT SHOULD BE  1304.23 40                                023773.00
          LC,$X3,XCSZ5             -REFILL INTO COUNT FIELD                           21756.06 50              023773.40
          KC,$X3,XCSZ1             -TEST BITS 46-63                                   21753.07 90              023774.00
          SIC,SEN                                                                     1310.00 80              023774.40
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                BZXE,SERS              -ERR IF BIT LOST                      1304.32 CO          023775.00
        LX,$X3,XCSZ2                   -RESTORE IX REG.                      21754.06 10         023775.40
        NOP,0                                                               0.30 00             023776.00
                NOP,0                                                        0.30 00             023776.40
XCS9E   LX,$X4,XCSZ1                   -LOAD WITH ONES ONE TIME %4¤          21753.10 10         023777.00
        SX,$X4,XCSZ5                                                         21756.11 10         023777.40
                SX,$X4,XCSZ5           -READ IX REG N TIMES                  21756.11 10         024000.00
        SX,$X4,XCSZ5                                                         21756.11 10         024000.40
                SX,$X4,XCSZ5                                                 21756.11 10         024001.00
        SX,$X4,XCSZ5                                                         21756.11 10         024001.40
        .       SX,$X4,XCSZ5                                                 21756.11 10         024002.00
        SX,$X4,XCSZ5                                                         21756.11 32 10      024002.40
                SX,$X4,XCSZ5                                                 21756.11 10         024003.00
        SX,$X4,XCSZ5                                                         21756.11 10         024003.40
                SX,$X4,XCSZ5                                                 21756.11 10         024004.00
        SX,$X4,XCSZ5                                                         21756.11 10         024004.40
                SX,$X4,XCSZ5                                                 21756.11 10         024005.00
        SX,$X4,XCSZ5                                                         21756.11 10         024005.40
                SX,$X4,XCSZ5                                                 21756.11 10         024006.00
        SX,$X4,XCSZ5                                                         21756.11 10         024006.40
                SX,$X4,XCSZ5                                                 21756.11 10         024007.00
        SX,$X4,XCSZ5                                                         21756.11 10         024007.40
                SX,$X4,XCSZ5                                                 21756.11 10         024010.00
        SX,$X4,XCSZ5                                                         21756.11 10         024010.40
                SX,$X4,XCSZ5                                                 21756.11 10         024011.00
XCS9E1  KV,$X4,XCSZ1                   -TEST BITS 0-24                       21753.10 90         024011.40
        SIC,SEN                                                              1310.00 80          024012.00
                BZXEZ,SERS             -ERR IF BIT LOST                      1304.32 C4          024012.40
        KC,$X4,XCSZ1                   -TEST BITS 28-45                      21753.11 90         024013.00
        SIC,SEN                                                              1310.00 80          024013.40
                BZXE,SERS              -BITS MUST COMPARE                    1304.32 CO          024014.00
        SR,$X4,XCSZ5                   -REFILL TO WORK AREA                  21756.11 70         024014.40
        SIC,SEN                                                              1310.00 80          024015.00
                BZXF,SERS              -ERR IF XF NOT 1 AS IT SHOULD BE      1304.23 40          024015.40
        LC,$X4,XCSZ5                   -REFILL INTO COUNT FIELD              21756.10 50         024016.00
        KC,$X4,XCSZ1                   -TEST BITS 46-63                      21753.11 90         024016.40
        SIC,SEN                                                              1310.00 80          024017.00
                BZXE,SERS              -ERR IF BIT LOST                      1304.32 CO          024017.40
        LX,$X4,XCSZ2                   -RESTORE IX REG.                      21754.10 10         024020.00
        NOP,0                                                               0.30 00             024020.40
                NOP,0                                                        0.30 00             024021.00
XCS9F   LX,$X5,XCSZ1                   -LOAD WITH ONES ONE TIME %5¤          21753.12 10         024021.40
        SX,$X5,XCSZ5                                                         21756.13 10         024022.00
                SX,$X5,XCSZ5           -READ IX REG N TIMES                  21756.13 10         024022.40
        SX,$X5,XCSZ5                                                         21756.13 10         024023.00
                SX,$X5,XCSZ5                                                 21756.13 10         024023.40
        SX,$X5,XCSZ5                                                         21756.13 10         024024.00
                SX,$X5,XCSZ5                                                 21756.13 10         024024.40
        SX,$X5,XCSZ5                                                         21756.13 10         024025.00
                SX,$X5,XCSZ5                                                 21756.13 10         024025.40
        SX,$X5,XCSZ5                                                         21756.13 10         024026.00
                SX,$X5,XCSZ5                                                 21756.13 10         024026.40
        SX,$X5,XCSZ5                                                         21756.13 10         024027.00
                SX,$X5,XCSZ5                                                 21756.13 10         024027.40
        SX,$X5,XCSZ5                                                         21756.13 10         024030.00
                SX,$X5,XCSZ5                                                 21756.13 10         024030.40
        SX,$X5,XCSZ5                                                         21756.13 10         024031.00
                SX,$X5,XCSZ5                                                 21756.13 10         024031.40
        SX,$X5,XCSZ5                                                         21756.13 10         024032.00
                SX,$X5,XCSZ5                                                 21756.13 10         024032.40
        SX,$X5,XCSZ5                                                         21756.13 10         024033.00
                SX,$X5,XCSZ5                                                 21756.13 10         024033.40
XCS9F1  KV,$X5,XCSZ1                   -TEST BITS 0-24                       21753.12 90         024034.00
        SIC,SEN                                                              1310.00 80          024034.40
                BZXEZ,SERS             -ERR IF BIT LOST                      1304.32 C4          024035.00
        KC,$X5,XCSZ1                   -TEST BITS 28-45                      21753.13 90         024035.40
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            SIC,SEN                                              1310.00 80          024036.00
                    BZXE,SERS           -BITS MUST COMPARE        1304.32 C0          024036.40
            SR,$X5,XCSZ5               -REFILL TO WORK AREA      21756.13 70          024037.00
            SIC,SEN                                              1310.00 80          024037.40
                    BZXF,SERS           -ERR IF XF NOT 1 AS IT SHOULD BE  1304.23 40  024040.00
            LC,$X5,XCSZ5              -REFILL INTO COUNT FIELD   21756.12 50          024040.40
            KC,$X5,XCSZ1             -TEST BITS 46-63           21753.13 90          024041.00
            SIC,SEN                                              1310.00 80          024041.40
                    BZXE,SERS           -ERR IF BIT LOST          1304.32 C0          024042.00
            LX,$X5,XCSZ2             -RESTORE IX REG.           21754.12 10          024042.40
            NOP,0                                                   0.30 00          024043.00
                    NOP,0                                           0.30 00          024043.40
XCS9G       LX,$X6,XCSZ1             -LOAD WITH ONES ONE TIME %6¤ 21753.14 10        024044.00
            SX,$X6,XCSZ5                                        21756.15 10          024044.40
                    SX,$X6,XCSZ5        -READ IX REG N TIMES     21756.15 10          024045.00
            SX,$X6,XCSZ5                                        21756.15 10          024045.40
                    SX,$X6,XCSZ5                                 21756.15 10          024046.00
            SX,$X6,XCSZ5                                        21756.15 10          024046.40
                    SX,$X6,XCSZ5                                 21756.15 10          024047.00
            SX,$X6,XCSZ5                                        21756.15 10          024047.40
                    SX,$X6,XCSZ5                                 21756.15 10          024050.00
            SX,$X6,XCSZ5                                        21756.15 10          024050.40
                    SX,$X6,XCSZ5                                 21756.15 10          024051.00
            SX,$X6,XCSZ5                                        21756.15 10          024051.40
                    SX,$X6,XCSZ5                                 21756.15 10          024052.00
            SX,$X6,XCSZ5                                        21756.15 10          024052.40
                    SX,$X6,XCSZ5                                 21756.15 10          024053.00
            SX,$X6,XCSZ5                                        21756.15 10          024053.40
                    SX,$X6,XCSZ5                                 21756.15 10          024054.00
            SX,$X6,XCSZ5                                        21756.15 10          024054.40
                    SX,$X6,XCSZ5                                 21756.15 10          024055.00
            SX,$X6,XCSZ5                                        21756.15 10          024055.40
                    SX,$X6,XCSZ5                                 21756.15 10          024056.00
XCS9G1      KV,$X6,XCSZ1             -TEST BITS 0-24            21753.14 90          024056.40
            SIC,SEN                                              1310.00 80          024057.00
                    BZXEZ,SERS          -ERR IF BIT LOST          1304.32 C4          024057.40
            KC,$X6,XCSZ1             -TEST BITS 28-45          21753.15 90          024060.00
            SIC,SEN                                              1310.00 80          024060.40
                    BZXE,SERS           -BITS MUST COMPARE        1304.32 C0          024061.00
            SR,$X6,XCSZ5              -REFILL TO WORK AREA       21756.15 70          024061.40
            SIC,SEN                                              1310.00 80          024062.00
                    BZXF,SERS           -ERR IF XF NOT 1 AS IT SHOULD BE  1304.23 40  024062.40
            LC,$X6,XCSZ5             -REFILL INTO COUNT FIELD   21756.14 50          024063.00
            KC,$X6,XCSZ1            -TEST BITS 46-63           21753.15 90          024063.40
            SIC,SEN                                              1310.00 80          024064.00
                    BZXE,SERS           -ERR IF BIT LOST          1304.32 C0          024064.40
            LX,$X6,XCSZ2             -RESTORE IX REG.           21754.14 10          024065.00
            NOP,0                                                   0.30 00          024065.40
                    NOP,0                                           0.30 00          024066.00
XCS9H       LX,$X7,XCSZ1             -LOAD WITH ONES ONE TIME %7¤ 21753.16 10        024066.40
            SX,$X7,XCSZ5                                        21756.17 10          024067.00
                    SX,$X7,XCSZ5        -READ IX REG N TIMES     21756.17 10          024067.40
            SX,$X7,XCSZ5                                        21756.17 10          024070.00
                    SX,$X7,XCSZ5                                 21756.17 10          024070.40
            SX,$X7,XCSZ5                                        21756.17 10          024071.00
                    SX,$X7,XCSZ5                                 21756.17 10          024071.40
            SX,$X7,XCSZ5                                        21756.17 10          024072.00
                    SX,$X7,XCSZ5                                 21756.17 10          024072.40
            SX,$X7,XCSZ5                                        21756.17 10          024073.00
                    SX,$X7,XCSZ5                                 21756.17 10          024073.40
            SX,$X7,XCSZ5                                        21756.17 10          024074.00
                    SX,$X7,XCSZ5                                 21756.17 10          024074.40
            SX,$X7,XCSZ5                                        21756.17 10          024075.00
                    SX,$X7,XCSZ5                                 21756.17 10          024075.40
            SX,$X7,XCSZ5                                        21756.17 10          024076.00
                    SX,$X7,XCSZ5                                 21756.17 10          024076.40
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        SX,$X7,XCSZ5                                                  21756.17 10          024077.00
                  SX,$X7,XCSZ5                                        21756.17 10          024077.00
        SX,$X7,XCSZ5                                                  21756.17 10          024100.00
                  SX,$X7,XCSZ5                                        21756.17 10          024100.40
XCS9H1  KV,$X7,XCSZ1           -TEST BITS 0-24                        21753.16 90          024101.00
        SIC,SEN                                                       1310.00 80           024101.40
                  BZXEZ,SERS   -ERR IF BIT LOST                       1304.32 C4           024102.00
        KC,$X7,XCSZ1           -TEST BITS 28-45                       21753.17 90          024102.40
        SIC,SEN                                                       1310.00 80           024103.00
                  BZXE,SERS    -BITS MUST COMPARE                     1304.32 C0           024103.40
        SR,$X7,XCSZ5           -REFILL TO WORK AREA                   21756.17 70          024104.00
        SIC,SEN                                                       1310.00 80           024104.40
                  BZXF,SERS    -ERR IF XF NOT 1 AS IT SHOULD BE       1304.23 40           024105.00
        LC,$X7,XCSZ5           -REFILL INTO COUNT FIELD               21756.16 50          024105.40
        KC,$X7,XCSZ1           -TEST BITS 46-63                       21753.17 90          024106.00
        SIC,SEN                                                       1310.00 80           024106.40
                  BZXE,SERS    -ERR IF BIT LOST                       1304.32 C0           024107.00
        LX,$X7,XCSZ2           -RESTORE IX REG.                       21754.16 10          024107.40
        NOP,0                                                         0.30 00              024110.00
                  NOP,0                                               0.30 00              024110.40
XCS9J   LX,$X8,XCSZ1           -LOAD WITH ONES ONE TIME %8¤           21753.20 10          024111.00
        SX,$X8,XCSZ5                                                  21756.21 10          024111.40
                  SX,$X8,XCSZ5 -READ IX REG N TIMES                   21756.21 10          024112.00
        SX,$X8,XCSZ5                                                  21756.21 10          024112.40
                  SX,$X8,XCSZ5                                        21756.21 10          024113.00
        SX,$X8,XCSZ5                                                  21756.21 10          024113.40
                  SX,$X8,XCSZ5                                        21756.21 10          024114.00
        SX,$X8,XCSZ5                                                  21756.21 10          024114.40
                  SX,$X8,XCSZ5                                        21756.21 10          024115.00
        SX,$X8,XCSZ5                                                  21756.21 10          024115.40
                  SX,$X8,XCSZ5                                        21756.21 10          024116.00
        SX,$X8,XCSZ5                                                  21756.21 10          024116.40
                  SX,$X8,XCSZ5                                        21756.21 10          024117.00
        SX,$X8,XCSZ5                                                  21756.21 10          024117.40
                  SX,$X8,XCSZ5                                        21756.21 10          024120.00
        SX,$X8,XCSZ5                                                  21756.21 10          024120.40
                  SX,$X8,XCSZ5                                        21756.21 10          024121.00
        SX,$X8,XCSZ5                                                  21756.21 10          024121.40
                  SX,$X8,XCSZ5                                        21756.21 10          024122.00
        SX,$X8,XCSZ5                                                  21756.21 10          024122.40
                  SX,$X8,XCSZ5                                        21756.21 10          024123.00
XCS9J1  KV,$X8,XCSZ1           -TEST BITS 0-24                        21753.20 90          024123.40
        SIC,SEN                                                       1310.00 80           024124.00
                  BZXEZ,SERS   -ERR IF BIT LOST                       1304.32 C4           024124.40
        KC,$X8,XCSZ1           -TEST BITS 28-45                       21753.21 90          024125.00
        SIC,SEN                                                       1310.00 80           024125.40
                  BZXE,SERS    -BITS MUST COMPARE                     1304.32 C0           024126.00
        SR,$X8,XCSZ5           -REFILL TO WORK AREA                   21756.21 70          024126.40
        SIC,SEN                                                       1310.00 80           024127.00
                  BZXF,SERS    -ERR IF XF NOT 1 AS IT SHOULD BE       1304.23 40           024127.40
        LC,$X8,XCSZ5           -REFILL INTO COUNT FIELD               21756.20 50          024130.00
        KC,$X8,XCSZ1           -TEST BITS 46-63                       21753.21 90          024130.40
        SIC,SEN                                                       1310.00 80           024131.00
                  BZXE,SERS    -ERR IF BIT LOST                       1304.32 C0           024131.40
        LX,$X8,XCSZ2           -RESTORE IX REG.                       21754.20 10          024132.00
        NOP,0                                                         0.30 00              024132.40
                  NOP,0                                               0.30 00              024133.00
XCS9K   LX,$X9,XCSZ1           -LOAD WITH ONES ONE TIME %9¤           21753.22 10          024133.40
        SX,$X9,XCSZ5                                                  21756.23 10          024134.00
                  SX,$X9,XCSZ5 -READ IX REG N TIMES                   21756.23 10          024134.40
        SX,$X9,XCSZ5                                                  21756.23 10          024135.00
                  SX,$X9,XCSZ5                                        21756.23 10          024135.40
        SX,$X9,XCSZ5                                                  21756.23 10          024136.00
                  SX,$X9,XCSZ5                                        21756.23 10          024136.40
        SX,$X9,XCSZ5                                                  21756.23 10          024137.00
                  SX,$X9,XCSZ5                                        21756.23 10          024137.40
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                SX,$X9,XCSZ5                                                  21756.23 10              024140.00
                        SX,$X9,XCSZ5                                          21756.23 10              024140.40
                SX,$X9,XCSZ5                                                  21756.23 10              024141.00
                        SX,$X9,XCSZ5                                          21756.23 10              024141.40
                SX,$X9,XCSZ5                                                  21756.23 10              024142.00
                        SX,$X9,XCSZ5                                          21756.23 10              024142.40
                SX,$X9,XCSZ5                                                  21756.23 10              024143.00
                        SX,$X9,XCSZ5                                          21756.23 10              024143.40
                SX,$X9,XCSZ5                                                  21756.23 10              024144.00
                        SX,$X9,XCSZ5                                          21756.23 10              024144.40
                SX,$X9,XCSZ5                                                  21756.23 10              024145.00
                        SX,$X9,XCSZ5                                          21756.23 10              024145.40
XCS9K1          KV,$X9,XCSZ1            -TEST BITS 0-24                        21753.22 90              024146.00
                SIC,SEN                                                       1310.00 80               024146.40
                        BZXEZ,SERS     -ERR IF BIT LOST                       1304.32 C4               024147.00
                KC,$X9,XCSZ1           -TEST BITS 28-45                       21753.23 90              024147.40
                SIC,SEN                                                       1310.00 80               024150.00
                        BZXE,SERS      -BITS MUST COMPARE                     1304.32 C0               024150.40
                SR,$X9,XCSZ5           -REFILL TO WORK AREA                   21756.23 70              024151.00
                SIC,SEN                                                       1310.00 80               024151.40
                        BZXF,SERS      -ERR IF XF NOT 1 AS IT SHOULD BE       1304.23 40               024152.00
                LC,$X9,XCSZ5           -REFILL INTO COUNT FIELD               21756.22 50              024152.40
                KC,$X9,XCSZ1           -TEST BITS 46-63                       21753.23 90              024153.00
                SIC,SEN                                                       1310.00 80               024153.40
                        BZXE,SERS      -ERR IF BIT LOST                       1304.32 C0               024154.00
                LX,$X9,XCSZ2           -RESTORE IX REG.                       21754.22 10              024154.40
                NOP,0                                                         0.30 00                  024155.00
                        NOP,0                                                 0.30 00                  024155.40
XCS9L           LX,$X10,XCSZ1          -LOAD WITH ONES ONE TIME %10¤          21753.24 10              024156.00
                SX,$X10,XCSZ5                                                 21756.25 10              024156.40
                        SX,$X10,XCSZ5  -READ IX REG N TIMES                   21756.25 10              024157.00
                SX,$X10,XCSZ5                                                 21756.25 10              024157.40
                        SX,$X10,XCSZ5                                         21756.25 10              024160.00
                SX,$X10,XCSZ5                                                 21756.25 10              024160.40
                        SX,$X10,XCSZ5                                         21756.25 10              024161.00
                SX,$X10,XCSZ5                                                 21756.25 10              024161.40
                        SX,$X10,XCSZ5                                         21756.25 10              024162.00
                SX,$X10,XCSZ5                                                 21756.25 10              024162.40
                        SX,$X10,XCSZ5                                         21756.25 10              024163.00
                SX,$X10,XCSZ5                                                 21756.25 10              024163.40
                        SX,$X10,XCSZ5                                         21756.25 10              024164.00
                SX,$X10,XCSZ5                                                 21756.25 10              024164.40
                        SX,$X10,XCSZ5                                         21756.25 10              024165.00
                SX,$X10,XCSZ5                                                 21756.25 10              024165.40
                        SX,$X10,XCSZ5                                         21756.25 10              024166.00
                SX,$X10,XCSZ5                                                 21756.25 10              024166.40
                        SX,$X10,XCSZ5                                         21756.25 10              024167.00
                SX,$X10,XCSZ5                                                 21756.25 10              024167.40
                        SX,$X10,XCSZ5                                         21756.25 10              024170.00
XCS9L1          KV,$X10,XCSZ1          -TEST BITS 0-24                        21753.24 90              024170.40
                SIC,SEN                                                       1310.00 80               024171.00
                        BZXEZ,SERS     -ERR IF BIT LOST                       1304.32 C4               024171.40
                KC,$X10,XCSZ1          -TEST BITS 28-45                       21753.25 90              024172.00
                SIC,SEN                                                       1310.00 80               024172.40
                        BZXE,SERS      -BITS MUST COMPARE                     1304.32 C0               024173.00
                SR,$X10,XCSZ5          -REFILL TO WORK AREA                   21756.25 70              024173.40
                SIC,SEN                                                       1310.00 80               024174.00
                        BZXF,SERS      -ERR IF XF NOT 1 AS IT SHOULD BE       1304.23 40               024174.40
                LC,$X10,XCSZ5          -REFILL INTO COUNT FIELD               21756.24 50              024175.00
                KC,$X10,XCSZ1          -TEST BITS 46-63                       21753.25 90              024175.40
                SIC,SEN                                                       1310.00 80               024176.00
                        BZXE,SERS      -ERR IF BIT LOST                       1304.32 C0               024176.40
                LX,$X10,XCSZ2          -RESTORE IX REG.                       21754.24 10              024177.00
                NOP,0                                                         0.30 00                  024177.40
                        NOP,0                                                 0.30 00                  024200.00
XCS9M           LX,$X11,XCSZ1          -LOAD WITH ONES ONE TIME %11¤          21753.26 10              024200.40
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                SX,$X11,XCSZ5                                          21756.27 10              024201.00
                        SX,$X11,XCSZ5      -READ IX REG N TIMES         21756.27 10              024201.40
                SX,$X11,XCSZ5                                          21756.27 10              024202.00
                        SX,$X11,XCSZ5                                   21756.27 10              024202.40
                SX,$X11,XCSZ5                                          21756.27 10              024203.00
                        SX,$X11,XCSZ5                                   21756.27 10              024203.40
                SX,$X11,XCSZ5                                          21756.27 10              024204.00
                        SX,$X11,XCSZ5                                   21756.27 10              024204.40
                SX,$X11,XCSZ5                                          21756.27 10              024205.00
                        SX,$X11,XCSZ5                                   21756.27 10              024205.40
                SX,$X11,XCSZ5                                          21756.27 10              024206.00
                        SX,$X11,XCSZ5                                   21756.27 10              024206.40
                SX,$X11,XCSZ5                                          21756.27 10              024207.00
                        SX,$X11,XCSZ5                                   21756.27 10              024207.40
                SX,$X11,XCSZ5                                          21756.27 10              024210.00
                        SX,$X11,XCSZ5                                   21756.27 10              024210.40
                SX,$X11,XCSZ5                                          21756.27 10              024211.00
                        SX,$X11,XCSZ5                                   21756.27 10              024211.40
                SX,$X11,XCSZ5                                          21756.27 10              024212.00
                        SX,$X11,XCSZ5                                   21756.27 10              024212.40
XCS9M1    KV,$X11,XCSZ1            -TEST BITS 0-24                      21753.26 90              024213.00
          SIC,SEN                                                      1310.00 80               024213.40
                BZXEZ,SERS        -ERR IF BIT LOST                      1304.32 C4               024214.00
          KC,$X11,XCSZ1           -TEST BITS 28-45                      21753.27 90              024214.40
          SIC,SEN                                                      1310.00 80               024215.00
                BZXE,SERS         -BITS MUST COMPARE                    1304.32 C0               024215.40
          SR,$X11,XCSZ5           -REFILL TO WORK AREA                  21756.27 70              024216.00
          SIC,SEN                                                      1310.00 80               024216.40
                BZXF,SERS         -ERR IF XF NOT 1 AS IT SHOULD BE      1304.23 40               024217.00
          LC,$X11,XCSZ5           -REFILL INTO COUNT FIELD              21756.26 50              024217.40
          KC,$X11,XCSZ1           -TEST BITS 46-63                      21753.27 90              024220.00
          SIC,SEN                                                      1310.00 80               024220.40
                BZXE,SERS         -ERR IF BIT LOST                      1304.32 C0               024221.00
          LX,$X11,XCSZ2           -RESTORE IX REG.                      21754.26 10              024221.40
          NOP,0                                                        0.30 00                  024222.00
                NOP,0                                                   0.30 00                  024222.40
XCS9N     LX,$X12,XCSZ1           -LOAD WITH ONES ONE TIME%12¤          21753.30 10              024223.00
          SX,$X12,XCSZ5                                                 21756.31 10              024223.40
                        SX,$X12,XCSZ5      -READ IX REG N TIMES         21756.31 10              024224.00
                SX,$X12,XCSZ5                                          21756.31 10              024224.40
                        SX,$X12,XCSZ5                                   21756.31 10              024225.00
                SX,$X12,XCSZ5                                          21756.31 10              024225.40
                        SX,$X12,XCSZ5                                   21756.31 10              024226.00
                SX,$X12,XCSZ5                                          21756.31 10              024226.40
                        SX,$X12,XCSZ5                                   21756.31 10              024227.00
                SX,$X12,XCSZ5                                          21756.31 10              024227.40
                        SX,$X12,XCSZ5                                   21756.31 10              024230.00
                SX,$X12,XCSZ5                                          21756.31 10              024230.40
                        SX,$X12,XCSZ5                                   21756.31 10              024231.00
                SX,$X12,XCSZ5                                          21756.31 10              024231.40
                        SX,$X12,XCSZ5                                   21756.31 10              024232.00
                SX,$X12,XCSZ5                                          21756.31 10              024232.40
                        SX,$X12,XCSZ5                                   21756.31 10              024233.00
                SX,$X12,XCSZ5                                          21756.31 10              024233.40
                        SX,$X12,XCSZ5                                   21756.31 10              024234.00
                SX,$X12,XCSZ5                                          21756.31 10              024234.40
                        SX,$X12,XCSZ5                                   21756.31 10              024235.00
XCS9N1    KV,$X12,XCSZ1           -TEST BITS 0-24                      21753.30 90              024235.40
          SIC,SEN                                                      1310.00 80               024236.00
                BZXEZ,SERS        -ERR IF BIT LOST                      1304.32 C4               024236.40
          KC,$X12,XCSZ1           -TEST BITS 28-45                      21753.31 90              024237.00
          SIC,SEN                                                      1310.00 80               024237.40
                BZXE,SERS         -BITS MUST COMPARE                    1304.32 C0               024240.00
          SR,$X12,XCSZ5           -REFILL TO WORK AREA                  21756.31 70              024240.40
          SIC,SEN                                                      1310.00 80               024241.00
                BZXF,SERS         -ERR IF XF NOT1 AS IT SHOULD BE       1304.23 40               024241.40
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        LC,$X12,XCSZ5                   -REFILL INTO COUNT FIELD            21756.30 50      024242.00
        KC,$X12,XCSZ1                   -TEST BITS 46-63                    21753.31 90      024242.40
        SIC,SEN                                                            1310.00 80       024243.00
            BZXE,SERS                   -ERR IF BIT LOST                   1304.32 C0       024243.40
        LX,$X12,XCSZ2                   -RESTORE IX REG.                    21754.30 10      024244.00
        NOP,0                                                              0.30 00          024244.40
            NOP,0                                                          0.30 00          024245.00
XCS9P   LX,$X13,XCSZ1                   -LOAD WITH ONES ONE TIME %13□       21753.32 10      024245.40
        SX,$X13,XCSZ5                                                      21756.33 10      024246.00
            SX,$X13,XCSZ5               -READ IX REG N TIMES               21756.33 10      024246.40
        SX,$X13,XCSZ5                                                      21756.33 10      024247.00
            SX,$X13,XCSZ5                                                  21756.33 10      024247.40
        SX,$X13,XCSZ5                                                      21756.33 10      024250.00
            SX,$X13,XCSZ5                                                  21756.33 10      024250.40
        SX,$X13,XCSZ5                                                      21756.33 10      024251.00
            SX,$X13,XCSZ5                                                  21756.33 10      024251.40
        SX,$X13,XCSZ5                                                      21756.33 10      024252.00
            SX,$X13,XCSZ5                                                  21756.33 10      024252.40
        SX,$X13,XCSZ5                                                      21756.33 10      024253.00
            SX,$X13,XCSZ5                                                  21756.33 10      024253.40
        SX,$X13,XCSZ5                                                      21756.33 10      024254.00
            SX,$X13,XCSZ5                                                  21756.33 10      024254.40
        SX,$X13,XCSZ5                                                      21756.33 10      024255.00
            SX,$X13,XCSZ5                                                  21756.33 10      024255.40
XCS9P1  KV,$X13,XCSZ1                   -TEST BITS 0-24                    21753.32 90      024256.00
        SIC,SEN                                                            1310.00 80       024256.40
            BZXEZ,SERS                  -ERR IF BIT LOST                   1304.32 C4       024257.00
        KC,$X13,XCSZ1                   -TEST BITS 28-45                   21753.33 90      024257.40
        SIC,SEN                                                            1310.00 80       024260.00
            BZXE,SERS                   -BITS MUST COMPARE                 1304.32 C0       024260.40
        SR,$X13,XCSZ5                   -REFILL TO WORK AREA               21756.33 70      024261.00
        SIC,SEN                                                            1310.00 80       024261.40
            BZXF,SERS                   -ERR IF XF NOT 1 AS IT SHOULD BE   1304.23 40       024262.00
        LC,$X13,XCSZ5                   -REFILL INTO COUNT FIELD           21756.32 50      024262.40
        KC,$X13,XCSZ1                   -TEST BITS 46-63                   21753.33 90      024263.00
        SIC,SEN                                                            1310.00 80       024263.40
            BZXE,SERS                   -ERR IF BIT LOST                   1304.32 C0       024264.00
        LX,$X13,XCSZ2                   -RESTORE IX REG.                   21754.32 10      024264.40
        NOP,0                                                              0.30 00          024265.00
            NOP,0                                                          0.30 00          024265.40
XCS9Q   LX,$X14,XCSZ1                   -LOAD WITH ONES ONE TIME %14□       21753.34 10      024266.00
        SX,$X14,XCSZ5                                                      21756.35 10      024266.40
            SX,$X14,XCSZ5              -READ IX REG N TIMES                21756.35 10      024267.00
        SX,$X14,XCSZ5                                                      21756.35 10      024267.40
            SX,$X14,XCSZ5                                                  21756.35 10      024270.00
        SX,$X14,XCSZ5                                                      21756.35 10      024270.40
            SX,$X14,XCSZ5                                                  21756.35 10      024271.00
        SX,$X14,XCSZ5                                                      21756.35 10      024271.40
            SX,$X14,XCSZ5                                                  21756.35 10      024272.00
        SX,$X14,XCSZ5                                                      21756.35 10      024272.40
            SX,$X14,XCSZ5                                                  21756.35 10      024273.00
        SX,$X14,XCSZ5                                                      21756.35 10      024273.40
            SX,$X14,XCSZ5                                                  21756.35 10      024274.00
        SX,$X14,XCSZ5                                                      21756.35 10      024274.40
            SX,$X14,XCSZ5                                                  21756.35 10      024275.00
        SX,$X14,XCSZ5                                                      21756.35 10      024275.40
            SX,$X14,XCSZ5                                                  21756.35 10      024276.00
        SX,$X14,XCSZ5                                                      21756.35 10      024276.40
            SX,$X14,XCSZ5                                                  21756.35 10      024277.00
        SX,$X14,XCSZ5                                                      21756.35 10      024277.40
            SX,$X14,XCSZ5                                                  21756.35 10      024300.00
XCS9Q1  KV,$X14,XCSZ1                   -TEST BITS 0-24                    21753.34 90      024300.40
        SIC,SEN                                                            1310.00 80       024301.00
            BZXEZ,SERS                  -ERR IF BIT LOST                   1304.32 C4       024301.40
        KC,$X14,XCSZ1                   -TEST BITS 28-45                   21753.35 90      024302.00
        SIC,SEN                                                            1310.00 80       024302.40
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         BZXE,SERS              -BITS MUST COMPARE                      1304.32 C0      024303.00
     SR,$X14,XCSZ5              -REFILL TO WORK AREA                    21756.35 70     024303.40
     SIC,SEN                                                           1310.00 80       024304.00
         BZXF,SERS              -ERR IF XF NOT 1 AS IT SHOULD BE        1304.23 40      024304.40
     LC,$X14,XCSZ5             -REFILL INTO COUNT FIELD                 21756.34 50     024305.00
     KC,$X14,XCSZ1             -TEST BITS 46-63                         21753.35 90     024305.40
     SIC,SEN                                                           1310.00 80       024306.00
         BZXE,SERS             -ERR IF BIT LOST                         1304.32 C0      024306.40
     LX,$X14,XCSZ2            -RESTORE IX REG.                          21754.34 10     024307.00
     NOP,0                                                               0.30 00        024307.40
         NOP,0                                                           0.30 00        024310.00
XCS9R  LX,$X15,XCSZ1          -LOAD WITH ONES ONE TIME %15¤             21753.36 10     024310.40
     SX,$X15,XCSZ5                                                     21756.37 10      024311.00
         SX,$X15,XCSZ5         -READ IX REG N TIMES                     21756.37 10     024311.40
     SX,$X15,XCSZ5                                                     21756.37 10      024312.00
         SX,$X15,XCSZ5                                                  21756.37 10     024312.40
     SX,$X15,XCSZ5                                                     21756.37 10      024313.00
         SX,$X15,XCSZ5                                                  21756.37 10     024313.40
     SX,$X15,XCSZ5                                                     21756.37 10      024314.00
         SX,$X15,XCSZ5                                                  21756.37 10     024314.40
     SX,$X15,XCSZ5                                                     21756.37 10      024315.00
         SX,$X15,XCSZ5                                                  21756.37 10     024315.40
     SX,$X15,XCSZ5                                                     21756.37 10      024316.00
         SX,$X15,XCSZ5                                                  21756.37 10     024316.40
     SX,$X15,XCSZ5                                                     21756.37 10      024317.00
         SX,$X15,XCSZ5                                                  21756.37 10     024317.40
     SX,$X15,XCSZ5                                                     21756.37 10      024320.00
         SX,$X15,XCSZ5                                                  21756.37 10     024320.40
     SX,$X15,XCSZ5                                                     21756.37 10      024321.00
         SX,$X15,XCSZ5                                                  21756.37 10     024321.40
     SX,$X15,XCSZ5                                                     21756.37 10      024322.00
         SX,$X15,XCSZ5                                                  21756.37 10     024322.40
XCS9R1 KV,$X15,XCSZ1          -TEST BITS 0-24                           21753.36 90     024323.00
     SIC,SEN                                                           1310.00 80       024323.40
         BZXEZ,SERS            -ERR IF BIT LOST                         1304.32 C4      024324.00
     KC,$X15,XCSZ1            -TEST BITS 28-45                          21753.37 90     024324.40
     SIC,SEN                                                           1310.00 80       024325.00
         BZXE,SERS             -BITS MUST COMPARE                       1304.32 C0      024325.40
     SR,$X15,XCSZ5            -REFILL TO WORK AREA                      21756.37 70     024326.00
     SIC,SEN                                                           1310.00 80       024326.40
         BZXF,SERS             -ERR IF XF NOT 1 AS IT SHOULD BE         1304.23 40      024327.00
     LC,$X15,XCSZ5            -REFILL INTO COUNT FIELD                  21756.36 50     024327.40
     KC,$X15,XCSZ1            -TEST BITS 46-63                          21753.37 90     024330.00
     SIC,SEN                                                           1310.00 80       024330.40
         BZXE,SERS             -ERR IF BIT LOST                         1304.32 C0      024331.00
     LX,$X15,XCSZ2            -RESTORE IX REG.                          21754.36 10     024331.40
     NOP,0                                                               0.30 00        024332.00
         NOP,0                                                           0.30 00        024332.40
     B,$+1.0                                                           24334.10 00      024333.00
     B,XCS9                   -TO LOOP IN LOW ONE DIST TEST             23655.10 00     024333.40
     SIC,SEN0+.32                                                      1311.40 80       024334.00
         B,SSW                 -TEST SENSE SWITCHES                     1301.10 00      024334.40
XCS10  LX,$X0,XCSZ1                                                     21753.00 10      024335.00
         LX,$X1,XCSZ1          -INITIALIZE BY                           21753.02 10     024335.40
     LX,$X2,XCSZ1                                                      21753.04 10      024336.00
         LX,$X3,XCSZ1          -SETTING ALL IX                          21753.06 10     024336.40
     LX,$X4,XCSZ1                                                      21753.10 10      024337.00
         LX,$X5,XCSZ1          -REGS TO ONES                            21753.12 10     024337.40
     LX,$X6,XCSZ1                                                      21753.14 10      024340.00
         LX,$X7,XCSZ1          -PREPARE FOR                             21753.16 10     024340.40
     LX,$X8,XCSZ1                                                      21753.20 10      024341.00
         LX,$X9,XCSZ1          -ALTERNATE ZERO                          21753.22 10     024341.40
     LX,$X10,XCSZ1                                                     21753.24 10      024342.00
         LX,$X11,XCSZ1         -WORD AND                                21753.26 10     024342.40
     LX,$X12,XCSZ1                                                     21753.30 10      024343.00
         LX,$X13,XCSZ1         -ALL ONES WORD                           21753.32 10     024343.40
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              LX,$X14,XCSZ1                                      21753.34 10                    024344.00
                      LX,$X15,XCSZ1           -TEST              21753.36 10                    024344.40
XCS10A  LX,$X0,XCSZ2                                             21754.00 10                    024345.00
                      LX,$X0,XCSZ1           -ALTERN WITH 0 AND ONES %0¤   21753.00 10          024345.40
        LX,$X0,XCSZ2                                             21754.00 10                    024346.00
                      LX,$X0,XCSZ1                               21753.00 10                    024346.40
        LX,$X0,XCSZ2                                             21754.00 10                    024347.00
                      LX,$X0,XCSZ1                               21753.00 10                    024347.40
        LX,$X0,XCSZ2                                             21754.00 10                    024350.00
                      LX,$X0,XCSZ1                               21753.00 10                    024350.40
        LX,$X0,XCSZ2                                             21754.00 10                    024351.00
                      LX,$X0,XCSZ1                               21753.00 10                    024351.40
        LX,$X0,XCSZ2                                             21754.00 10                    024352.00
                      LX,$X0,XCSZ1                               21753.00' 10                   024352.40
        LX,$X0,XCSZ2                                             21754.00 10                    024353.00
                      LX,$X0,XCSZ1                               21753.00 10                    024353.40
        LX,$X0,XCSZ2                                             21754.00 10                    024354.00
                      LX,$X0,XCSZ1                               21753.00 10                    024354.40
        LX,$X0,XCSZ2                                             21754.00 10                    024355.00
                      LX,$X0,XCSZ1                               21753.00 10                    024355.40
        LX,$X0,XCSZ2                                             21754.00 10                    024356.00
                      LX,$X0,XCSZ1                               21753.00 10                    024356.40
        LX,$X0,XCSZ2           -ALL ZEROS IN %0¤                 21754.00 10                    024357.00
        KV,$X0,XCSZ2           -TEST BITS 0-24                   21754.00 90                    024357.40
        SIC,SEN                                                  1310.00 80                     024360.00
                      BZXEZ,SERS            -ERR IF BIT PICKED UP   1304.32 C4                   024360.40
        KC,$X0,XCSZ2           -TEST BITS 28-45                  21754.01 90                    024361.00
        SIC,SEN                                                  1310.00 80                     024361.40
                      BZXE,SERS            -BITS MUST COMPARE     1304.32 C0                     024362.00
        SR,$X0,XCSZ5           -REFILL TO WORK AREA              21756.01 70                     024362.40
        SIC,SEN                                                  1310.00 80                     024363.00
                      BXF,SERS            -ERR IF XF NOT 0 AS IT SHD BE   1304.23 42             024363.40
        LC,$X0,XCSZ5           -REFILL INTO COUNT FIELD          21756.00 50                     024364.00
        KC,$X0,XCSZ2           -TEST BITS 46-63                  21754.01 90                     024364.40
        SIC,SEN                                                  1310.00 80                     024365.00
                      BZXE,SERS            -ERR IF BIT PICKED UP  1304.32 C0                     024365.40
        LX,$X0,XCSZ1           -RESTORE IX REG.                  21753.00 10                     024366.00
        NOP,0                                                    0.30 00                        024366.40
                      NOP,0                                      0.30 00                        024367.00
XCS10B  LX,$X1,XCSZ2                                             21754.02 10                     024367.40
                      LX,$X1,XCSZ1         -ALTERN WITH 0 AND ONES %1¤    21753.02 10            024370.00
        LX,$X1,XCSZ2                                             21754.02 10                     024370.40
                      LX,$X1,XCSZ1                               21753.02 10                     024371.00
        LX,$X1,XCSZ2                                             21754.02 10                     024371.40
                      LX,$X1,XCSZ1                               21753.02 10                     024372.00
        LX,$X1,XCSZ2                                             21754.02 10                     024372.40
                      LX,$X1,XCSZ1                               21753.02 10                     024373.00
        LX,$X1,XCSZ2                                             21754.02 10                     024373.40
                      LX,$X1,XCSZ1                               21753.02 10                     024374.00
        LX,$X1,XCSZZ                                             21754.02 10                     024374.40
                      LX,$X1,XCSZ1                               21753.02 10                     024375.00
        LX,$X1,XCSZ2                                             21754.02 10                     024375.40
                      LX,$X1,XCSZ1                               21753.02 10                     024376.00
        LX,$X1,XCSZ2                                             21754.02 10                     024376.40
                      LX,$X1,XCSZ1                               21753.02 10                     024377.00
        LX,$X1,XCSZ2                                             21754.02 10                     024377.40
                      LX,$X1,XCSZ1                               21753.02 10                     024400.00
        LX,$X1,XCSZ2                                             21754.02 10                     024400.40
                      LX,$X1,XCSZ1                               21753.02 10                     024401.00
        LX,$X1,XCSZ2           -ALL ZEROS IN %1¤                 21754.02 10                     024401.40
        KV,$X1,XCSZ2           -TEST BITS 0-24                   21754.02 90                     024402.00
        SIC,SEN                                                  1310.00 80                     024402.40
                      BZXEZ,SERS           -ERR IF BIT PICKED UP  1304.32 C4                     024403.00
        KC,$X1,XCSZ2           -TEST BITS 28-45                  21754.03 90                     024403.40
        SIC,SEN                                                  1310.00 80                     024404.00
                      BZXE,SERS            -BITS MUST COMPARE     1304.32 C0                     024404.40
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                SR,$X1,XCSZ5              -REFILL TO WORK AREA              21756.03 70          024405.00
          SIC,SEN                                                          1310.00 80           024405.40
                BXF,SERS                 -ERR IF XF NOT 0 AS IT SHD BE     1304.23 42           024406.00
          LC,$X1,XCSZ5                   -REFILL INTO COUNT FIELD          21756.02 50          024406.40
          KC,$X1,XCSZ2                   -TEST BITS 46-63                  21754.03 90          024407.00
          SIC,SEN                                                          1310.00 80           024407.40
                BZXE,SERS                -ERR IF BIT PICKED UP             1304.32 C0           024410.00
          LX,$X1,XCSZ1                   -RESTORE IX REG.                  21753.02 10          024410.40
          NOP,0                                                            0.30 00              024411.00
                NOP,0                                                      0.30 00              024411.40
CS10C     LX,$X2,XCSZ2                                                     21754.04 10          024412.00
                LX,$X2,XCSZ1             -ALTERN WITH 0 AND ONES%2¤        21753.04 10          024412.40
          LX,$X2,XCSZ2                                                     21754.04 10          024413.00
                LX,$X2,XCSZ1                                               21753.04 10          024413.40
          LX,$X2,XCSZ2                                                     21754.04 10          024414.00
                LX,$X2,XCSZ1                                               21753.04 10          024414.40
          LX,$X2,XCSZ2                                                     21754.04 10          024415.00
                LX,$X2,XCSZ1                                               21753.04 10          024415.40
          LX,$X2,XCSZ2                                                     21754.04 10          024416.00
                LX,$X2,XCSZ1                                               21753.04 10          024416.40
          LX,$X2,XCSZ2                                                     21754.04 10          024417.00
                LX,$X2,XCSZ1                                               21753.04 10          024417.40
          LX,$X2,XCSZ2                                                     21754.04 10          024420.00
                LX,$X2,XCSZ1                                               21753.04 10          024420.40
          LX,$X2,XCSZ2                                                     21754.04 10          024421.00
                LX,$X2,XCSZ1                                               21753.04 10          024421.40
          LX,$X2,XCSZ2                                                     21754.04 10          024422.00
                LX,$X2,XCSZ1                                               21753.04 10          024422.40
          LX,$X2,XCSZ2                                                     21754.04 10          024423.00
                LX,$X2,XCSZ1                                               21753.04 10          024423.40
          LX,$X2,XCSZ2                   -ALL ZEROS IN %2¤                 21754.04 10          024424.00
          KV,$X2,XCSZ2                   -TEST BITS 0-24                   21754.04 90          024424.40
          SIC,SEN                                                          1310.00 80           024425.00
                BZXEZ,SERS               -ERR IF BIT PICKED UP             1304.32 C4           024425.40
          KC,$X2,XCSZ2                   -TEST BITS 28-45                  21754.05 90          024426.00
          SIC,SEN                                                          1310.00 80           024426.40
                BZXE,SERS                -BITS MUST COMPARE                1304.32 C0           024427.00
          SR,$X2,XCSZ5                   -REFILL TO WORK AREA              21756.05 70          024427.40
          SIC,SEN                                                          1310.00 80           024430.00
                BXF,SERS                 -ERR IF XF NOT 0 AS IT SHD BE     1304.23 42           024430.40
          LC,$X2,XCSZ5                   -REFILL INTO COUNT FIELD          21756.04 50          024431.00
          KC,$X2,XCSZ2                   -TEST BITS 46-63                  21754.05 90          024431.40
          SIC,SEN                                                          1310.00 80           024432.00
                BZXE,SERS                -ERR IF BIT PICKED UP             1304.32 C0           024432.40
          LX,$X2,XCSZ1                   -RESTORE IX REG.                  21753.04 10          024433.00
          NOP,0                                                            0.30 00              024433.40
                NOP,0                                                      0.30 00              024434.00
CS10D     LX,$X3,XCSZ2                                                     21754.06 10          024434.40
                LX,$X3,XCSZ1            -ALTERN WITH 0 AND ONES %3¤        21753.06 10          024435.00
          LX,$X3,XCSZ2                                                     21754.06 10          024435.40
                LX,$X3,XCSZ1                                               21753.06 10          024436.00
          LX,$X3,XCSZ2                                                     21754.06 10          024436.40
                LX,$X3,XCSZ1                                               21753.06 10          024437.00
          LX,$X3,XCSZ2                                                     21754.06 10          024437.40
                LX,$X3,XCSZ1                                               21753.06 10          024440.00
          LX,$X3,XCSZ2                                                     21754.06 10          024440.40
                LX,$X3,XCSZ1                                               21753.06 10          024441.00
          LX,$X3,XCSZ2                                                     21754.06 10          024441.40
                LX,$X3,XCSZ1                                               21753.06 10          024442.00
          LX,$X3,XCSZ2                                                     21754.06 10          024442.40
                LX,$X3,XCSZ1                                               21753.06 10          024443.00
          LX,$X3,XCSZ2                                                     21754.06 10          024443.40
                LX,$X3,XCSZ1                                               21753.06 10          024444.00
          LX,$X3,XCSZ2                                                     21754.06 10          024444.40
                LX,$X3,XCSZ1                                               21753.06 10          024445.00
          LX,$X3,XCSZ2                                                     21754.06 10          024445.40
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                        LX,$X3,XCSZ1                                        21753.06 10              024446.00
            LX,$X3,XCSZ2                      -ALL ZEROS IN %3¤             21754.06 10              024446.40
            KV,$X3,XCSZ2                      -TEST BITS 0-24               21754.06 90              024447.00
            SIC,SEN                                                        1310.00 80               024447.40
                        BZXEZ,SERS            -ERR IF BIT PICKED UP         1304.32 C4              024450.00
            KC,$X3,XCSZ2                      -TEST BITS 28-45              21754.07 90              024450.40
            SIC,SEN                                                        1310.00 80               024451.00
                        BZXE,SERS             -BITS MUST COMPARE            1304.32 C0              024451.40
            SR,$X3,XCSZ5                      -REFILL TO WORK AREA          21756.07 70             024452.00
            SIC,SEN                                                        1310.00 80               024452.40
                        BXF,SERS              -ERR IF XF NOT 0 AS IT SHD BE 1304.23 42              024453.00
            LC,$X3,XCSZ5                      -REFILL INTO COUNT FIELD      21754.06 50             024453.40
            KC,$X3,XCSZ2                      -TEST BITS 46-63              21754.07 90             024454.00
            SIC,SEN                                                        1310.00 80               024454.40
                        BZXE,SERS             -ERR IF BIT PICKED UP         1304.32 C0              024455.00
            LX,$X3,XCSZ1                      -RESTORE IX REG.              21753.06 10             024455.40
            NOP,0                                                          0.30 00                  024456.00
                        NOP,0                                              0.30 00                  024456.40
CS10E       LX,$X4,XCSZ2                                                   21754.10 10              024457.00
                        LX,$X4,XCSZ1          -ALTERN WITH 0 AND ONES %4¤   21753.10 10             024457.40
            LX,$X4,XCSZ2                                                   21754.10 10              024460.00
                        LX,$X4,XCSZ1                                       21753.10 10              024460.40
            LX,$X4,XCSZ2                                                   21754.10 10              024461.00
                        LX,$X4,XCSZ1                                       21753.10 10              024461.40
            LX,$X4,XCSZ2                                                   21754.10 10              024462.00
                        LX,$X4,XCSZ1                                       21753.10 10              024462.40
            LX,$X4,XCSZ2                                                   21754.10 10              024463.00
                        LX,$X4,XCSZ1                                       21753.10 10              024463.40
            LX,$X4,XCSZ2                                                   21754.10 10              024464.00
                        LX,$X4,XCSZ1                                       21753.10 10              024464.40
            LX,$X4,XCSZ2                                                   21754.10 10              024465.00
                        LX,$X4,XCSZ1                                       21753.10 10              024465.40
            LX,$X4,XCSZ2                                                   21754.10 10              024466.00
                        LX,$X4,XCSZ1                                       21753.10 10              024466.40
            LX,$X4,XCSZ2                                                   21754.10 10              024467.00
                        LX,$X4,XCSZ1                                       21753.10 10              024467.40
            LX,$X4,XCSZ2                                                   21754.10 10              024470.00
                        LX,$X4,XCSZ1                                       21753.10 10              024470.40
            LX,$X4,XCSZ2                      -ALL ZEROS IN %4¤             21754.10 10              024471.00
            KV,$X4,XCSZ2                      -TEST BITS 0-24               21754.10 90              024471.40
            SIC,SEN                                                        1310.00 80               024472.00
                        BZXEZ,SERS            -ERR IF BIT PICKED UP         1304.32 C4              024472.40
            KC,$X4,XCSZ2                      -TEST BITS 28-45              21754.11 90              024473.00
            SIC,SEN                                                        1310.00 80               024473.40
                        BZXE,SERS             -BITS MUST COMPARE            1304.32 C0              024474.00
            SR,$X4,XCSZ5                      -REFILL TO WORK AREA          21756.11 70             024474.40
            SIC,SEN                                                        1310.00 80               024475.00
                        BXF,SERS              -ERR IF XF NOT 0 AS IT SHD BE 1304.23 42              024475.40
            LC,$X4,XCSZ5                      -REFILL INTO COUNT FIELD      21756.10 50             024476.00
            KC,$X4,XCSZ2                      -TEST BITS 46-63              21754.11 90             024476.40
            SIC,SEN                                                        1310.00 80               024477.00
                        BZXE,SERS             -ERR IF BIT PICKED UP         1304.32 C0              024477.40
            LX,$X4,XCSZ1                      -RESTORE IX REG.              21753.10 10             024500.00
            NOP,0                                                          0.30 00                  024500.40
                        NOP,0                                              0.30 00                  024501.00
CS20F       LX,$X5,XCSZ2                                                   21754.12 10              024501.40
                        LX,$X5,XCSZ1          -ALTERN WITH 0 AND ONES %5¤   21753.12 10             024502.00
            LX,$X5,XCSZ2                                                   21754.12 10              024502.40
                        LX,$X5,XCSZ1                                       21753.12 10              024503.00
            LX,$X5,XCSZ2                                                   21754.12 10              024503.40
                        LX,$X5,XCSZ1                                       21753.12 10              024504.00
            LX,$X5,XCSZ2                                                   21754.12 10              024504.40
                        LX,$X5,XCSZ1                                       21753.12 10              024505.00
            LX,$X5,XCSZ2                                                   21754.12 10              024505.40
                        LX,$X5,XCSZ1                                       21753.12 10              024506.00
            LX,$X5,XCSZ2                                                   21754.12 10              024506.40
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                        LX,$X5,XCSZ1                                          21753.12 10                      024507.00
        LX,$X5,XCSZ2                                                          21754.12 10                      024507.40
                        LX,$X5,XCSZ1                                          21753.12 10                      024510.00
        LX,$X5,XCSZ2                                                          21754.12 10                      024510.40
                        LX,$X5,XCSZ1                                          21753.12 10                      024511.00
        LX,$X5,XCSZ2                                                          21754.12 10                      024511.40
                        LX,$X5,XCSZ1                                          21753.12 10                      024512.00
        LX,$X5,XCSZ2                                                          21754.12 10                      024512.40
                        LX,$X5,XCSZ1                                          21753.12 10                      024513.00
        LX,$X5,XCSZ2                      -ALL ZEROS IN %5¤                   21754.12 10                      024513.40
        KV,$X5,XCSZ2                      -TEST BITS 0-24                     21754.12 90                      024514.00
        SIC,SEN                                                              1310.00 80                       024514.40
                        BZXEZ,SERS        -ERR IF BIT PICKED UP              1304.32 C4                       024515.00
        KC,$X5,XCSZ2                      -TEST BITS 28-45                    21754.13 90                      024515.40
        SIC,SEN                                                              1310.00 80                       024516.00
                        BZXE,SERS         -BITS MUST COMPARE                 1304.32 C0                       024516.40
        SR,$X5,XCSZ5                      -REFILL TO WORK AREA               21756.13 70                      024517.00
        SIC,SEN                                                              1310.00 80                       024517.40
                        BXF,SERS          -ERR IF XF NOT 0 AS IT SHD BE      1304.23 42                       024520.00
        LC,$X5,XCSZ5                      -REFILL INTO COUNT FIELD           21756.12 50                      024520.40
        KC,$X5,XCSZ2                      -TEST BITS 46-63                    21754.13 90                      024521.00
        SIC,SEN                                                              1310.00 80                       024521.40
                        BZXE,SERS         -ERR IF BIT PICKED UP              1304.32 C0                       024522.00
        LX,$X5,XCSZ1                      -RESTORE IX REG.                   21753.12 10                      024522.40
        NOP,0                                                                 0.30 00                          024523.00
                        NOP,0                                                 0.30 00                          024523.40
CS10G   LX,$X6,XCSZ2                                                          21754.14 10                      024524.00
                        LX,$X6,XCSZ1      -ALTERN WITH 0 AND ONES %6¤        21753.14 10                      024524.40
        LX,$X6,XCSZ2                                                          21754.14 10                      024525.00
                        LX,$X6,XCSZ1                                          21753.14 10                      024525.40
        LX,$X6,XCSZ2                                                          21754.14 10                      024526.00
                        LX,$X6,XCSZ1                                          21753.14 10                      024526.40
        LX,$X6,XCSZ2                                                          21754.14 10                      024527.00
                        LX,$X6,XCSZ1                                          21753.14 10                      024527.40
        LX,$X6,XCSZ2                                                          21754.14 10                      024530.00
                        LX,$X6,XCSZ1                                          21753.14 10                      024530.40
        LX,$X6,XCSZ2                                                          21754.14 10                      024531.00
                        LX,$X6,XCSZ1                                          21753.14 10                      024531.40
        LX,$X6,XCSZ2                                                          21754.14 10                      024532.00
                        LX,$X6,XCSZ1                                          21753.14 10                      024532.40
        LX,$X6,XCSZ2                                                          21754.14 10                      024533.00
                        LX,$X6,XCSZ1                                          21753.14 10                      024533.40
        LX,$X6,XCSZ2                                                          21754.14 10                      024534.00
                        LX,$X6,XCSZ1                                          21753.14 10                      024534.40
        LX,$X6,XCSZ2                                                          21754.14 10                      024535.00
                        LX,$X6,XCSZ1                                          21753.14 10                      024535.40
        LX,$X6,XCSZ2                                                          21754.14 10                      024536.00
                        LX,$X6,XCSZ1      -ALL ZEROS IN %6¤                  21753.14 10                      024536.40
        LX,$X6,XCSZ2                                                          21754.14 10                      024537.00
        KV,$X6,XCSZ2                      -TEST BITS 0-24                    21754.14 90                      024537.40
        SIC,SEN                                                              1310.00 80                       024540.00
                        BZXEZ,SERS        -ERR IF BIT PICKED UP              1304.32 C4                       024540.40
        KC,$X6,XCSZ2                      -TEST BITS 28-45                    21754.15 90                      024541.00
        SIC,SEN                                                              1310.00 80                       024541.40
                        BZXE,SERS         -BITS MUST COMPARE                 1304.32 C0                       024542.00
        SR,$X6,XCSZ5                      -REFILL TO WORK AREA               21756.15 70                      024542.40
        SIC,SEN                                                              1310.00 80                       024543.00
                        BXF,SERS          -ERR IF XF NOT 0 AS IT SHD BE      1304.23 42                       024543.40
        LC,$X6,XCSZ5                      -REFILL INTO COUNT FIELD           21756.14 50                      024544.00
        KC,$X6,XCSZ2                      -TEST BITS 46-63                    21754.15 90                      024544.40
        SIC,SEN                                                              1310.00 80                       024545.00
                        BZXE,SERS         -ERR IF BIT PICKED UP              1304.32 C0                       024545.40
        LX,$X6,XCSZ1                      -RESTORE IX REG.                   21753.14 10                      024546.00
        NOP,0                                                                 0.30 00                          024546.40
                        NOP,0                                                 0.30 00                          024547.00
XCS10H  LX,$X7,XCSZ2                                                          21754.16 10                      024547.40
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            LX,$X7,XCSZ1        -ALTERN WITH 0 AND ONES %7¤   21753.16 10        024550.00
      LX,$X7,XCSZ2                                           21754.16 10        024550.40
            LX,$X7,XCSZ1                                     21753.16 10        024551.00
      LX,$X7,XCSZ2                                           21754.16 10        024551.40
            LX,$X7,XCSZ1                                     21753.16 10        024552.00
      LX,$X7,XCSZ2                                           21754.16 10        024552.40
            LX,$X7,XCSZ1                                     21753.16 10        024553.00
      LX,$X7,XCSZ2                                           21754.16 10        024553.40
            LX,$X7,XCSZ1                                     21753.16 10        024554.00
      LX,$X7,XCSZ2                                           21754.16 10        024554.40
            LX,$X7,XCSZ1                                     21753.16 10        024555.00
      LX,$X7,XCSZ2                                           21754.16 10        024555.40
            LX,$X7,XCSZ1                                     21753.16 10        024556.00
      LX,$X7,XCSZ2                                           21754.16 10        024556.40
            LX,$X7,XCSZ1                                     21753.16 10        024557.00
      LX,$X7,XCSZ2                                           21754.16 10        024557.40
            LX,$X7,XCSZ1                                     21753.16 10        024560.00
      LX,$X7,XCSZ2                                           21754.16 10        024560.40
            LX,$X7,XCSZ1                                     21753.16 10        024561.00
      LX,$X7,XCSZ2        -ALL ZEROS IN %7¤                  21754.16 10        024561.40
      KV,$X7,XCSZ2        -TEST BITS 0-24                    21754.16 90        024562.00
      SIC,SEN                                                1310.00 80         024562.40
            BZXEZ,SERS     -ERR IF BIT PICKED UP             1304.32 C4         024563.00
      KC,$X7,XCSZ2        -TEST BITS 28-45                   21754.17 90        024563.40
      SIC,SEN                                                1310.00 80         024564.00
            BZXE,SERS      -BITS MUST COMPARE                1304.32 C0         024564.40
      SR,$X7,XCSZ5        -REFILL TO WORK AREA               21756.17 70        024565.00
      SIC,SEN                                                1310.00 80         024565.40
            BXF,SERS       -ERR IF XF NOT 0 AS IT SHD BE     1304.23 42         024566.00
      LC,$X7,XCSZ5        -REFILL INTO COUNT FIELD           21756.16 50        024566.40
      KC,$X7,XCSZ2        -TEST BITS 46-63                   21754.17 90        024567.00
      SIC,SEN                                                1310.00 80         024567.40
            BZXE,SERS      -ERR IF BIT PICKED UP             1304.32 C0         024570.00
      LX,$X7,XCSZ1        -RESTORE IX REG.                   21753.16 10        024570.40
      NOP,0                                                  0.30 00            024571.00
            NOP,0                                            0.30 00            024571.40
XCS10J  LX,$X8,XCSZ2                                         21754.20 10        024572.00
            LX,$X8,XCSZ1   -ALTERN WITH 0 AND ONES %8¤       21753.20 10        024572.40
      LX,$X8,XCSZ2                                           21754.20 10        024573.00
            LX,$X8,XCSZ1                                     21753.20 10        024573.40
      LX,$X8,XCSZ2                                           21754.20 10        024574.00
            LX,$X8,XCSZ1                                     21753.20 10        024574.40
      LX,$X8,XCSZ2                                           21754.20 10        024575.00
            LX,$X8,XCSZ1                                     21753.20 10        024575.40
      LX,$X8,XCSZ2                                           21754.20 10        024576.00
            LX,$X8,XCSZ1                                     21753.20 10        024576.40
      LX,$X8,XCSZ2                                           21754.20 10        024577.00
            LX,$X8,XCSZ1                                     21753.20 10        024577.40
      LX,$X8,XCSZ2                                           21754.20 10        024600.00
            LX,$X8,XCSZ1                                     21753.20 10        024600.40
      LX,$X8,XCSZ2                                           21754.20 10        024601.00
            LX,$X8,XCSZ1                                     21753.20 10        024601.40
      LX,$X8,XCSZ2                                           21754.20 10        024602.00
            LX,$X8,XCSZ1                                     21753.20 10        024602.40
      LX,$X8,XCSZ2                                           21754.20 10        024603.00
            LX,$X8,XCSZ1                                     21753.20 10        024603.40
      LX,$X8,XCSZ2        -ALL ZEROS IN %8¤                  21754.20 10        024604.00
      KV,$X8,XCSZ2        -TEST BITS 0-24                    21754.20 90        024604.40
      SIC,SEN                                                1310.00 80         024605.00
            BZXEZ,SERS     -ERR IF BIT PICKED UP             1304.32 C4         024605.40
      KC,$X8,XCSZ2        -TEST BITS 28-45                   21754.21 90        024606.00
      SIC,SEN                                                1310.00 80         024606.40
            BZXE,SERS      -BITS MUST COMPARE                1304.32 C0         024607.00
      SR,$X8,XCSZ5        -REFILL TO WORK AREA               21756.21 70        024607.40
      SIC,SEN                                                1310.00 80         024610.00
            BXF,SERS       -ERR IF XF NOT 0 AS IT SHD BE     1304.23 42         024610.40
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            LC,$X8,XCSZ5              -REFILL INTO COUNT FIELD         21756.20 50         024611.00
            KC,$X8,XCSZ2             -TEST BITS 46-63                 21754.21 90         024611.40
            SIC,SEN                                                   1310.00 80          024612.00
                 BZXE,SERS          -ERR IF BIT PICKED UP             1304.32 CO          024612.40
            LX,$X8,XCSZ1             -RESTORE IX REG.                 21753.20 10          024613.00
            NOP,0                                                     0.30 00             024613.40
                 NOP,0                                                0.30 00             024614.00
XCS10K   LX,$X9,XCSZ2                                                 21754.22 10          024614.40
                 LX,$X9,XCSZ1       -ALTERN WITH 0 AND ONES %9¤       21753.22 10          024615.00
            LX,$X9,XCSZ2                                              21754.22 10          024615.40
                 LX,$X9,XCSZ1                                         21753.22 10          024616.00
            LX,$X9,XCSZ2                                              21754.22 10          024616.40
                 LX,$X9,XCSZ1                                         21753.22 10          024617.00
            LX,$X9,XCSZ2                                              21754.22 10          024617.40
                 LX,$X9,XCSZ1                                         21753.22 10          024620.00
            LX,$X9,XCSZ2                                              21754.22 10          024620.40
                 LX,$X9,XCSZ1                                         21753.22 10          024621.00
            LX,$X9,XCSZ2                                              21754.22 10          024621.40
                 LX,$X9,XCSZ1                                         21753.22 10          024622.00
            LX,$X9,XCSZ2                                              21754.22 10          024622.40
                 LX,$X9,XCSZ1                                         21753.22 10          024623.00
            LX,$X9,XCSZ2                                              21754.22 10          024623.40
                 LX,$X9,XCSZ1                                         21753.22 10          024624.00
            LX,$X9,XCSZ2                                              21754.22 10          024624.40
                 LX,$X9,XCSZ1                                         21753.22 10          024625.00
            LX,$X9,XCSZ2                                              21754.22 10          024625.40
                 LX,$X9,XCSZ1                                         21753.22 10          024626.00
            LX,$X9,XCSZ2           -ALL ZEROS IN %9¤                  21754.22 10          024626.40
            KV,$X9,XCSZ2           -TEST BITS 0-24                    21754.22 90          024627.00
            SIC,SEN                                                   1310.00 80          024627.40
                 BZXEZ,SERS         -ERR IF BIT PICKED UP             1304.32 C4          024630.00
            KC,$X9,XCSZ2           -TEST BITS 28-45                   21754.23 90          024630.40
            SIC,SEN                                                   1310.00 80          024631.00
                 BZXE,SERS          -BITS MUST COMPARE                1304.32 CO          024631.40
            SR,$X9,XCSZ5           -REFILL TO WORK AREA               21756.23 70          024632.00
            SIC,SEN                                                   1310.00 80          024632.40
                 BXF,SERS           -ERR IF XF NOT 0 AS IT SHD BE     1304.23 42          024633.00
            LC,$X9,XCSZ5           -REFILL INTO COUNT FIELD           21756.22 50          024633.40
            KC,$X9,XCSZ2           -TEST BITS 46-63                   21754.23 90          024634.00
            SIC,SEN                                                   1310.00 80          024634.40
                 BZXE,SERS          -ERR IF BIT PICKED UP             1304.32 CO          024635.00
            LX,$X9,XCSZ1           -RESTORE IX REG.                   21753.22 10          024635.40
            NOP,0                                                     0.30 00             024636.00
                 NOP,0                                                0.30 00             024636.40
XCS10L   LX,$X10,XCSZ2                                                21754.24 10          024637.00
                 LX,$X10,XCSZ1      -ALTERN WITH 0 AND ONES %10¤      21753.24 10          024637.40
            LX,$X10,XCSZ2                                             21754.24 10          024640.00
                 LX,$X10,XCSZ1                                        21753.24 10          024640.40
            LX,$X10,XCSZ2                                             21754.24 10          024641.00
                 LX,$X10,XCSZ1                                        21753.24 10          024641.40
            LX,$X10,XCSZ2                                             21754.24 10          024642.00
                 LX,$X10,XCSZ1                                        21753.24 10          024642.40
            LX,$X10,XCSZ2                                             21754.24 10          024643.00
                 LX,$X10,XCSZ1                                        21753.24 10          024643.40
            LX,$X10,XCSZ2                                             21754.24 10          024644.00
                 LX,$X10,XCSZ1                                        21753.24 10          024644.40
            LX,$X10,XCSZ2                                             21754.24 10          024645.00
                 LX,$X10,XCSZ1                                        21753.24 10          024645.40
            LX,$X10,XCSZ2                                             21754.24 10          024646.00
                 LX,$X10,XCSZ1                                        21753.24 10          024646.40
            LX,$X10,XCSZ2                                             21754.24 10          024647.00
                 LX,$X10,XCSZ1                                        21753.24 10          024647.40
            LX,$X10,XCSZ2                                             21754.24 10          024650.00
                 LX,$X10,XCSZ1                                        21753.24 10          024650.40
            LX,$X10,XCSZ2          -ALL ZEROS IN %10¤                 21754.24 10          024651.00
            KV,$X10,XCSZ2          -TEST BITS 0-24                    21754.24 90          024651.40
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        SIC,SEN                                                   1310.00 80              024652.00
              BZXEZ,SERS          -ERR IF BIT PICKED UP           1304.32 C4              024652.40
        KC,$X10,XCSZ2             -TEST BITS 28-45                21754.25 90             024653.00
        SIC,SEN                                                   1310.00 80              024653.40
              BZXE,SERS           -BITS MUST COMPARE              1304.32 C0              024654.00
        SR,$X10,XCSZ5            -REFILL TO WORK AREA             21756.25 70             024654.40
        SIC,SEN                                                   1310.00 80              024655.00
              BXF,SERS            -ERR IF XF NOT 0 AS IT SHD BE   1304.23 42              024655.40
        LC,$X10,XCSZ5            -REFILL INTO COUNT FIELD         21756.24 50             024656.00
        KC,$X10,XCSZ2            -TEST BITS 46-63                 21754.25 90             024656.40
        SIC,SEN                                                   1310.00 80              024657.00
              BZXE,SERS           -ERR IF BIT PICKED UP           1304.32 C0              024657.40
        LX,$X10,XCSZ1           -RESTORE IX REG.                 21753.24 10             024660.00
        NOP,0                                                     0.30 00                 024660.40
              NOP,0                                               0.30 00                 024661.00
XCS10M  LX,$X11,XCSZ2                                             21754.26 10             024661.40
              LX,$X11,XCSZ1       -ALTERN WITH 0 AND ONES %11¤    21753.26 10             024662.00
        LX,$X11,XCSZ2                                             21754.26 10             024662.40
              LX,$X11,XCSZ1                                       21753.26 10             024663.00
        LX,$X11,XCSZ2                                             21754.26 10             024663.40
              LX,$X11,XCSZ1                                       21753.26 10             024664.00
        LX,$X11,XCSZ2                                             21754.26 10             024664.40
              LX,$X11,XCSZ1                                       21753.26 10             024665.00
        LX,$X11,XCSZ2                                             21754.26 10             024665.40
              LX,$X11,XCSZ1                                       21753.26 10             024666.00
        LX,$X11,XCSZ2                                             21754.26 10             024666.40
              LX,$X11,XCSZ1                                       21753.26 10             024667.00
        LX,$X11,XCSZ2                                             21754.26 10             024667.40
              LX,$X11,XCSZ1                                       21753.26 10             024670.00
        LX,$X11,XCSZ2                                             21754.26 10             024670.40
              LX,$X11,XCSZ1                                       21753.26 10             024671.00
        LX,$X11,XCSZ2                                             21754.26 10             024671.40
              LX,$X11,XCSZ1                                       21753.26 10             024672.00
        LX,$X11,XCSZ2                                             21754.26 10             024672.40
              LX,$X11,XCSZ1                                       21753.26 10             024673.00
        LX,$X11,XCSZ2           -ALL ZEROS IN %11¤               21754.26 10             024673.40
        KV,$X11,XCSZ2            -TEST BITS 0-24                  21754.26 90             024674.00
        SIC,SEN                                                   1310.00 80              024674.40
              BZXEZ,SERS          -ERR IF BIT PICKED UP           1304.32 C4              024675.00
        KC,$X11,XCSZ2            -TEST BITS 28-45                 21754.27 90             024675.40
        SIC,SEN                                                   1310.00 80              024676.00
              BZXE,SERS           -BITS MUST COMPARE              1304.32 C0              024676.40
        SR,$X11,XCSZ5           -REFILL TO WORK AREA             21756.27 70             024677.00
        SIC,SEN                                                   1310.00 80              024677.40
              BXF,SERS            -ERR IF XF NOT 0 AS IT SHD BE   1304.23 42              024700.00
        LC,$X11,XCSZ5           -REFILL INTO COUNT FIELD         21756.26 50             024700.40
        KC,$X11,XCSZ2            -TEST BITS 46-63                 21754.27 90             024701.00
        SIC,SEN                                                   1310.00 80              024701.40
              BZXE,SERS           -ERR IF BIT PICKED UP           1304.32 C0              024702.00
        LX,$X11,XCSZ1           -RESTORE IX REG.                 21753.26 10             024702.40
        NOP,0                                                     0.30 00                 024703.00
              NOP,0                                               0.30 00                 024703.40
XCS10N  LX,$X12,XCSZ2                                             21754.30 10             024704.00
              LX,$X12,XCSZ1       -ALTERN WITH 0 AND ONES %12¤    21753.30 10             024704.40
        LX,$X12,XCSZ2                                             21754.30 10             024705.00
              LX,$X12,XCSZ1                                       21753.30 10             024705.40
        LX,$X12,XCSZ2                                             21754.30 10             024706.00
              LX,$X12,XCSZ1                                       21753.30 10             024706.40
        LX,$X12,XCSZ2                                             21754.30 10             024707.00
              LX,$X12,XCSZ1                                       21753.30 10             024707.40
        LX,$X12,XCSZ2                                             21754.30 10             024710.00
              LX,$X12,XCSZ1                                       21753.30 10             024710.40
        LX,$X12,XCSZ2                                             21754.30 10             024711.00
              LX,$X12,XCSZ1                                       21753.30 10             024711.40
        LX,$X12,XCSZ2                                             21754.30 10             024712.00
              LX,$X12,XCSZ1                                       21753.30 10             024712.40
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            LX,$X12,XCSZ2                                                21754.30 10          024713.00
                    LX,$X12,XCSZ1                                        21753.30 10          024713.40
            LX,$X12,XCSZ2                                                21754.30 10          024714.00
                    LX,$X12,XCSZ1                                        21753.30 10          024714.40
            LX,$X12,XCSZ2                                                21754.30 10          024715.00
                    LX,$X12,XCSZ1                                        21753.30 10          024715.40
            LX,$X12,XCSZ2           -ALL ZEROS IN %12¤                   21754.30 10          024716.00
            KV,$X12,XCSZ2           -TEST BITS 0-24                      21754.30 90          024716.40
            SIC,SEN                                                      1310.00 80           024717.00
                    BZXEZ,SERS      -ERR IF BIT PICKED UP                1304.32 C4           024717.40
            KC,$X12,XCSZ2           -TEST BITS 28-45                     21754.31 90          024720.00
            SIC,SEN                                                      1310.00 80           024720.40
                    BZXE,SERS       -BITS MUST COMPARE                   1304.32 C0           024721.00
            SR,$X12,XCSZ5           -REFILL TO WORK AREA                 21756.31 70          024721.40
            SIC,SEN                                                      1310.00 80           024722.00
                    BXF,SERS        -ERR IF XF NOT 0 AS IT SHD BE        1304.23 42           024722.40
            LC,$X12,XCSZ5           -REFILL INTO COUNT FIELD             21756.30 50          024723.00
            KC,$X12,XCSZ2           -TEST BITS 46-63                     21754.31 90          024723.40
            SIC,SEN                                                      1310.00 80           024724.00
                    BZXE,SERS       -ERR IF BIT PICKED UP                1304.32 C0           024724.40
            LX,$X12,XCSZ1           -RESTORE IX REG.                     21753.30 10          024725.00
            NOP,0                                                        0.30 00              024725.40
                    NOP,0                                                0.30 00              024726.00
XCS10P      LX,$X13,XCSZ2                                                21754.32 10          024726.40
                    LX,$X13,XCSZ1   -ALTERN WITH 0 AND ONES %13¤         21753.32 10          024727.00
            LX,$X13,XCSZ2                                                21754.32 10          024727.40
                    LX,$X13,XCSZ1                                        21753.32 10          024730.00
            LX,$X13,XCSZ2                                                21754.32 10          024730.40
                    LX,$X13,XCSZ1                                        21753.32 10          024731.00
            LX,$X13,XCSZ2                                                21754.32 10          024731.40
                    LX,$X13,XCSZ1                                        21753.32 10          024732.00
            LX,$X13,XCSZ2                                                21754.32 10          024732.40
                    LX,$X13,XCSZ1                                        21753.32 10          024733.00
            LX,$X13,XCSZ2                                                21754.32 10          024733.40
                    LX,$X13,XCSZ1                                        21753.32 10          024734.00
            LX,$X13,XCSZ2                                                21754.32 10          024734.40
                    LX,$X13,XCSZ1                                        21753.32 10          024735.00
            LX,$X13,XCSZ2                                                21754.32 10          024735.40
                    LX,$X13,XCSZ1                                        21753.32 10          024736.00
            LX,$X13,XCSZ2                                                21754.32 10          024736.40
                    LX,$X13,XCSZ1                                        21753.32 10          024737.00
            LX,$X13,XCSZ2                                                21754.32 10          024737.40
                    LX,$X13,XCSZ1                                        21753.32 10          024740.00
            LX,$X13,XCSZ2           -ALL ZEROS IN %12¤                   21754.32 10          024740.40
            KV,$X13,XCSZ2           -TEST BITS 0-24                      21754.32 90          024741.00
            SIC,SEN                                                      1310.00 80           024741.40
                    BZXEZ,SERS      -ERR IF BIT PICKED UP                1304.32 C4           024742.00
            KC,$X13,XCSZ2           -TEST BITS 28-45                     21754.33 90          024742.40
            SIC,SEN                                                      1310.00 80           024743.00
                    BZXE,SERS       -BITS MUST COMPARE                   1304.32 C0           024743.40
            SR,$X13,XCSZ5           -REFILL TO WORK AREA                 21756.33 70          024744.00
            SIC,SEN                                                      1310.00 80           024744.40
                    BXF,SERS        -ERR IF XF NOT 0 AS IT SHD BE        1304.23 42           024745.00
            LC,$X13,XCSZ5           -REFILL INTO COUNT FIELD             21756.32 50          024745.40
            KC,$X13,XCSZ2           -TEST BITS 46-63                     21754.33 90          024746.00
            SIC,SEN                                                      1310.00 80           024746.40
                    BZXE,SERS       -ERR IF BIT PICKED UP                1304.32 C0           024747.00
            LX,$X13,XCSZ1           -RESTORE IX REG.                     21753.32 10          024747.40
            NOP,0                                                        0.30 00              024750.00
                    NOP,0                                                0.30 00              024750.40
XCS10Q      LX,$X14,XCSZ2                                                21754.34 10          024751.00
                    LX,$X14,XCSZ1   -ALTERN WITH 0 AND ONES %14¤         21753.34 10          024751.40
            LX,$X14,XCSZ2                                                21754.34 10          024752.00
                    LX,$X14,XCSZ1                                        21753.34 10          024752.40
            LX,$X14,XCSZ2                                                21754.34 10          024753.00
                    LX,$X14,XCSZ1                                        21753.34 10          024753.40
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         LX,$X14,XCSZ2                                               21754.34 10          024754.00
                  LX,$X14,XCSZ1                                      21753.34 10          024754.40
         LX,$X14,XCSZ2                                               21754.34 10          024755.00
                  LX,$X14,XCSZ1                                      21753.34 10          024755.40
         LX,$X14,XCSZ2                                               21754.34 10          024756.00
                  LX,$X14,XCSZ1                                      21753.34 10          024756.40
         LX,$X14,XCSZ2                                               21754.34 10          024757.00
                  LX,$X14,XCSZ1                                      21753.34 10          024757.40
         LX,$X14,XCSZ2                                               21754.34 10          024760.00
                  LX,$X14,XCSZ1                                      21753.34 10          024760.40
         LX,$X14,XCSZ2                                               21754.34 10          024761.00
                  LX,$X14,XCSZ1                                      21753.34 10          024761.40
         LX,$X14,XCSZ2                                               21754.34 10          024762.00
                  LX,$X14,XCSZ1                                      21753.34 10          024762.40
         LX,$X14,XCSZ2         -ALL ZEROS IN %14□                    21754.34 10          024763.00
         KV,$X14,XCSZ2         -TEST BITS 0-24                       21754.34 90          024763.40
         SIC,SEN                                                     1310.00 80           024764.00
                  BZXEZ,SERS   -ERR IF BIT PICKED UP                 1304.32 C4           024764.40
         KC,$X14,XCSZ2         -TEST BITS 28-45                      21754.35 90          024765.00
         SIC,SEN                                                     1310.00 80           024765.40
                  BZXE,SERS    -BITS MUST COMPARE                    1304.32 C0           024766.00
         SR,$X14,XCSZ5         -REFILL TO WORK AREA                  21756.35 70          024766.40
         SIC,SEN                                                     1310.00 80           024767.00
                  BXF,SERS     -ERR IF XF NOT 0 AS IT SHD BE         1304.23 42           024767.40
         LC,$X14,XCSZ5         -REFILL INTO COUNT FIELD              21756.34 50          024770.00
         KC,$X14,XCSZ2         -TEST BITS 46-63                      21754.35 90          024770.40
         SIC,SEN                                                     1310.00 80           024771.00
                  BZXE,SERS    -ERR IF BIT PICKED UP                 1304.32 C0           024771.40
         LX,$X14,XCSZ1         -RESTORE IX REG.                      21753.34 10          024772.00
         NOP,0                                                       0.30 00              024772.40
                  NOP,0                                              0.30 00              024773.00
XCS10R   LX,$X15,XCSZ2                                               21754.36 10          024773.40
                  LX,$X15,XCSZ1  -ALTERN WITH 0 AND ONES %15□        21753.36 10          024774.00
         LX,$X15,XCSZ2                                               21754.36 10          024774.40
                  LX,$X15,XCSZ1                                      21753.36 10          024775.00
         LX,$X15,XCSZ2                                               21754.36 10          024775.40
                  LX,$X15,XCSZ1                                      21753.36 10          024776.00
         LX,$X15,XCSZ2                                               21754.36 10          024776.40
                  LX,$X15,XCSZ1                                      21753.36 10          024777.00
         LX,$X15,XCSZ2                                               21754.36 10          024777.40
                  LX,$X15,XCSZ1                                      21753.36 10          025000.00
         LX,$X15,XCSZ2                                               21754.36 10          025000.40
                  LX,$X15,XCSZ1                                      21753.36 10          025001.00
         LX,$X15,XCSZ2                                               21754.36 10          025001.40
                  LX,$X15,XCSZ1                                      21753.36 10          025002.00
         LX,$X15,XCSZ2                                               21754.36 10          025002.40
                  LX,$X15,XCSZ1                                      21753.36 10          025003.00
         LX,$X15,XCSZ2                                               21754.36 10          025003.40
                  LX,$X15,XCSZ1                                      21753.36 10          025004.00
         LX,$X15,XCSZ2                                               21754.36 10          025004.40
                  LX,$X15,XCSZ1                                      21753.36 10          025005.00
         LX,$X15,XCSZ2         -ALL ZEROS IN %15□                    21754.36 10          025005.40
         KV,$X15,XCSZ2         -TEST BITS 0-24                       21754.36 90          025006.00
         SIC,SEN                                                     1310.00 80           025006.40
                  BZXEZ,SERS   -ERR IF BIT PICKED UP                 1304.32 C4           025007.00
         KC,$X15,XCSZ2         -TEST BITS 28-45                      21754.37 90          025007.40
         SIC,SEN                                                     1310.00 80           025010.00
                  BZXE,SERS    -BITS MUST COMPARE                    1304.32 C0           025010.40
         SR,$X15,XCSZ5         -REFILL TO WORK AREA                  21756.37 70          025011.00
         SIC,SEN                                                     1310.00 80           025011.40
                  BXF,SERS     -ERR IF XF NOT 0 AS IT SHD BE         1304.23 42           025012.00
         LC,$X15,XCSZ5         -REFILL INTO COUNT FIELD              21756.36 50          025012.40
         KC,$X15,XCSZ2         -TEST BITS 46-63                      21754.37 90          025013.00
         SIC,SEN                                                     1310.00 80           025013.40
                  BZXE,SERS    -ERR IF BIT PICKED UP                 1304.32 C0           025014.00
         LX,$X15,XCSZ1         -RESTORE IX REG.                      21753.36 10          025014.40
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                NOP,0                                                     0.30 00          025015.00
                    NOP,0                                                 0.30 00          025015.40
XCS11A  LX,$X0,XCSZ2                                                  21754.00 10          025016.00
                    LX,$X0,XCSZ1        -ALTERN WITH 0 AND ONES %0¤    21753.00 10          025016.40
        LX,$X0,XCSZ2                                                  21754.00 10          025017.00
                    LX,$X0,XCSZ1                                      21753.00 10          025017.40
        LX,$X0,XCSZ2                                                  21754.00 10          025020.00
                    LX,$X0,XCSZ1                                      21753.00 10          025020.40
        LX,$X0,XCSZ2                                                  21754.00 10          025021.00
                    LX,$X0,XCSZ1                                      21753.00 10          025021.40
        LX,$X0,XCSZ2                                                  21754.00 10          025022.00
                    LX,$X0,XCSZ1                                      21753.00 10          025022.40
        LX,$X0,XCSZ2                                                  21754.00 10          025023.00
                    LX,$X0,XCSZ1                                      21753.00 10          025023.40
        LX,$X0,XCSZ2                                                  21754.00 10          025024.00
                    LX,$X0,XCSZ1                                      21753.00 10          025024.40
        LX,$X0,XCSZ2                                                  21754.00 10          025025.00
                    LX,$X0,XCSZ1                                      21753.00 10          025025.40
        LX,$X0,XCSZ2                                                  21754.00 10          025026.00
                    LX,$X0,XCSZ1                                      21753.00 10          025026.40
        LX,$X0,XCSZ2                                                  21754.00 10          025027.00
                    LX,$X0,XCSZ1        -ALL ONES IN %0¤              21753.00 10          025027.40
        KV,$X0,XCSZ1                    -TEST BITS 0-24               21753.00 90          025030.00
        SIC,SEN                                                       1310.00 80          025030.40
                    BZXEZ,SERS          -ERR IF BIT LOST             1304.32 C4          025031.00
        KC,$X0,XCSZ1                    -TEST BITS 28-45             21753.01 90          025031.40
        SIC,SEN                                                       1310.00 80          025032.00
                    BZXE,SERS           -BITS MUST COMPARE          1304.32 C0          025032.40
        SR,$X0,XCSZ5                    -REFILL TO WORK AREA         21756.01 70          025033.00
        SIC,SEN                                                       1310.00 80          025033.40
                    BZXF,SERS           -ERR IF XF NOT 1 AS IT SHD BE 1304.23 40         025034.00
        LC,$X0,XCSZ5                    -REFILL INTO COUNT FIELD     21756.00 50          025034.40
        KC,$X0,XCSZ1                    -TEST BITS 46-63             21753.01 90          025035.00
        SIC,SEN                                                       1310.00 80          025035.40
                    BZXE,SERS           -ERR IF BIT LOST            1304.32 C0          025036.00
        LX,$X0,XCSZ1                    -RESTORE IX REG.            21753.00 10          025036.40
        NOP,0                                                         0.30 00          025037.00
                    NOP,0                                             0.30 00          025037.40
XCS11B  LX,$X1,XCSZ2                                                  21754.02 10          025040.00
                    LX,$X1,XCSZ1        -ALTERN WITH 0 AND ONES %1¤    21753.02 10          025040.40
        LX,$X1,XCSZ2                                                  21754.02 10          025041.00
                    LX,$X1,XCSZ1                                      21753.02 10          025041.40
        LX,$X1,XCSZ2                                                  21754.02 10          025042.00
                    LX,$X1,XCSZ1                                      21753.02 10          025042.40
        LX,$X1,XCSZ2                                                  21754.02 10          025043.00
                    LX,$X1,XCSZ1                                      21753.02 10          025043.40
        LX,$X1,XCSZ2                                                  21754.02 10          025044.00
                    LX,$X1,XCSZ1                                      21753.02 10          025044.40
        LX,$X1,XCSZ2                                                  21754.02 10          025045.00
                    LX,$X1,XCSZ1                                      21753.02 10          025045.40
        LX,$X1,XCSZ2                                                  21754.02 10          025046.00
                    LX,$X1,XCSZ1                                      21753.02 10          025046.40
        LX,$X1,XCSZ2                                                  21754.02 10          025047.00
                    LX,$X1,XCSZ1                                      21753.02 10          025047.40
        LX,$X1,XCSZ2                                                  21754.02 10          025050.00
                    LX,$X1,XCSZ1                                      21753.02 10          025050.40
        LX,$X1,XCSZ2                                                  21754.02 10          025051.00
                    LX,$X1,XCSZ1        -ALL ONES IN %1¤              21753.02 10          025051.40
        KV,$X1,XCSZ1                    -TEST BITS 0-24               21753.02 90          025052.00
        SIC,SEN                                                       1310.00 80          025052.40
                    BZXEZ,SERS          -ERR IF BIT LOST             1304.32 C4          025053.00
        KC,$X1,XCSZ1                    -TEST BITS 28-45             21753.03 90          025053.40
        SIC,SEN                                                       1310.00 80          025054.00
                    BZXE,SERS           -BITS MUST COMPARE          1304.32 C0          025054.40
        SR,$X1,XCSZ5                    -REFILL TO WORK AREA         21756.03 70          025055.00
        SIC,SEN                                                       1310.00 80          025055.40
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          BZXF,SERS              -ERR IF XF NOT 1 AS IT SHD BE    1304.23 40         025056.00
      LC,$X1,XCSZ5               -REFILL INTO COUNT FIELD         21756.02 50        025056.40
      KC,$X1,XCSZ1              -TEST BITS 46-63                  21753.03 90        025057.00
      SIC,SEN                                                     1310.00 80         025057.40
          BZXE,SERS             -ERR IF BIT LOST                  1304.32 C0         025060.00
      LX,$X1,XCSZ1              -RESTORE IX REG.                  21753.02 10        025060.40
      NOP,0                                                       0.30 00            025061.00
          NOP,0                                                   0.30 00            025061.40
XCS11C LX,$X2,XCSZ2                                               21754.04 10        025062.00
          LX,$X2,XCSZ1         -ALTERN WITH 0 AND ONES %2¤        21753.04 10        025062.40
      LX,$X2,XCSZ2                                                21754.04 10        025063.00
          LX,$X2,XCSZ1                                            21753.04 10        025063.40
      LX,$X2,XCSZ2                                                21754.04 10        025064.00
          LX,$X2,XCSZ1                                            21753.04 10        025064.40
      LX,$X2,XCSZ2                                                21754.04 10        025065.00
          LX,$X2,XCSZ1                                            21753.04 10        025065.40
      LX,$X2,XCSZ2                                                21754.04 10        025066.00
          LX,$X2,XCSZ1                                            21753.04 10        025066.40
      LX,$X2,XCSZ2                                                21754.04 10        025067.00
          LX,$X2,XCSZ1                                            21753.04 10        025067.40
      LX,$X2,XCSZ2                                                21754.04 10        025070.00
          LX,$X2,XCSZ1                                            21753.04 10        025070.40
      LX,$X2,XCSZ2                                                21754.04 10        025071.00
          LX,$X2,XCSZ1                                            21753.04 10        025071.40
      LX,$X2,XCSZ2                                                21754.04 10        025072.00
          LX,$X2,XCSZ1                                            21753.04 10        025072.40
      LX,$X2,XCSZ2                                                21754.04 10        025073.00
          LX,$X2,XCSZ1         -ALL ONES IN %2¤                   21753.04 10        025073.40
      KV,$X2,XCSZ1             -TEST BITS 0-24                    21753.04 90        025074.00
      SIC,SEN                                                     1310.00 80         025074.40
          BZXEZ,SERS          -ERR IF BIT LOST                   1304.32 C4         025075.00
      KC,$X2,XCSZ1             -TEST BITS 28-45                   21753.05 90        025075.40
      SIC,SEN                                                     1310.00 80         025076.00
          BZXE,SERS           -BITS MUST COMPARE                 1304.32 C0         025076.40
      SR,$X2,XCSZ5             -REFILL TO WORK AREA               21756.05 70        025077.00
      SIC,SEN                                                     1310.00 80         025077.40
          BZXF,SERS           -ERR IF XF NOT 1 AS IT SHD BE      1304.23 40         025100.00
      LC,$X2,XCSZ5            -REFILL INTO COUNT FIELD            21756.04 50        025100.40
      KC,$X2,XCSZ1            -TEST BITS 46-63                    21753.05 90        025101.00
      SIC,SEN                                                     1310.00 80         025101.40
          BZXE,SERS          -ERR IF BIT LOST                    1304.32 C0         025102.00
      LX,$X2,XCSZ1           -RESTORE IX REG.                     21753.04 10        025102.40
      NOP,0                                                       0.30 00            025103.00
          NOP,0                                                   0.30 00            025103.40
XCS11D LX,$X3,XCSZ2                                               21754.06 10        025104.00
          LX,$X3,XCSZ1        -ALTERN WITH 0 + ONES %3¤           21753.06 10        025104.40
      LX,$X3,XCSZ2                                                21754.06 10        025105.00
          LX,$X3,XCSZ1                                            21753.06 10        025105.40
      LX,$X3,XCSZ2                                                21754.06 10        025106.00
          LX,$X3,XCSZ1                                            21753.06 10        025106.40
      LX,$X3,XCSZ2                                                21754.06 10        025107.00
          LX,$X3,XCSZ1                                            21753.06 10        025107.40
      LX,$X3,XCSZ2                                                21754.06 10        025110.00
          LX,$X3,XCSZ1                                            21753.06 10        025110.40
      LX,$X3,XCSZ2                                                21754.06 10        025111.00
          LX,$X3,XCSZ1                                            21753.06 10        025111.40
      LX,$X3,XCSZ2                                                21754.06 10        025112.00
          LX,$X3,XCSZ1                                            21753.06 10        025112.40
      LX,$X3,XCSZ2                                                21754.06 10        025113.00
          LX,$X3,XCSZ1                                            21753.06 10        025113.40
      LX,$X3,XCSZ2                                                21754.06 10        025114.00
          LX,$X3,XCSZ1                                            21753.06 10        025114.40
      LX,$X3,XCSZ2                                                21754.06 10        025115.00
          LX,$X3,XCSZ1                                            21753.06 10        025115.40
      LX,$X3,XCSZ2                                                21754.06 10        025116.00
          LX,$X3,XCSZ1        -ALL ONES IN %3¤                    21753.06 10        025116.40
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        KV,$X3,XCSZ1              -TEST BITS 0-24              21753.06 90      025117.00
        SIC,SEN                                               1310.00 80       025117.40
            BZXEZ,SERS           -ERR IF BIT LOST             1304.32 C4       025120.00
        KC,$X3,XCSZ1             -TEST BITS 28-45             21753.07 90      025120.40
        SIC,SEN                                               1310.00 80       025121.00
            BZXE,SERS            -BITS MUST COMPARE           1304.32 C0       025121.40
        SR,$X3,XCSZ5             -REFILL TO WORK AREA         21756.07 70      025122.00
        SIC,SEN                                               1310.00 80       025122.40
            BZXF,SERS            -ERR IF XF NOT 1 AS IT SHD BE 1304.23 40      025123.00
        LC,$X3,XCSZ5            -REFILL INTO COUNT FIELD      21756.06 50      025123.40
        KC,$X3,XCSZ1            -TEST BITS 46-63              21753.07 90      025124.00
        SIC,SEN                                               1310.00 80       025124.40
            BZXE,SERS           -ERR IF BIT LOST              1304.32 C0       025125.00
        LX,$X3,XCSZ1            -RESTORE IX REG.              21753.06 10      025125.40
        NOP,0                                                 0.30 00          025126.00
            NOP,0                                             0.30 00          025126.40
XCS11E  LX,$X4,XCSZ2                                          21754.10 10      025127.00
            LX,$X4,XCSZ1        -ALTERN WITH 0 AND ONES %4¤   21753.10 10      025127.40
        LX,$X4,XCSZ2                                          21754.10 10      025130.00
            LX,$X4,XCSZ1                                      21753.10 10      025130.40
        LX,$X4,XCSZ2                                          21754.10 10      025131.00
            LX,$X4,XCSZ1                                      21753.10 10      025131.40
        LX,$X4,XCSZ2                                          21754.10 10      025132.00
            LX,$X4,XCSZ1                                      21753.10 10      025132.40
        LX,$X4,XCSZ2                                          21754.10 10      025133.00
            LX,$X4,XCSZ1                                      21753.10 10      025133.40
        LX,$X4,XCSZ2                                          21754.10 10      025134.00
            LX,$X4,XCSZ1                                      21753.10 10      025134.40
        LX,$X4,XCSZ2                                          21754.10 10      025135.00
            LX,$X4,XCSZ1                                      21753.10 10      025135.40
        LX,$X4,XCSZ2                                          21754.10 10      025136.00
            LX,$X4,XCSZ1                                      21753.10 10      025136.40
        LX,$X4,XCSZ2                                          21754.10 10      025137.00
            LX,$X4,XCSZ1                                      21753.10 10      025137.40
        LX,$X4,XCSZ2                                          21754.10 10      025140.00
            LX,$X4,XCSZ1        -ALL ONES IN %4¤              21753.10 10      025140.40
        KV,$X4,XCSZ1            -TEST BITS 0-24               21753.10 90      025141.00
        SIC,SEN                                               1310.00 80       025141.40
            BZXEZ,SERS          -ERR IF BIT LOST              1304.32 C4       025142.00
        KC,$X4,XCSZ1            -TEST BITS 28-45              21753.11 90      025142.40
        SIC,SEN                                               1310.00 80       025143.00
            BZXE,SERS           -BITS MUST COMPARE            1304.32 C0       025143.40
        SR,$X4,XCSZ5            -REFILL TO WORK AREA          21756.11 70      025144.00
        SIC,SEN                                               1310.00 80       025144.40
            BZXF,SERS           -ERR IF XF NOT 1 AS IT SHD BE 1304.23 40      025145.00
        LC,$X4,XCSZ5           -REFILL INTO COUNT FIELD       21756.10 50      025145.40
        KC,$X4,XCSZ1           -TEST BITS 46-63               21753.11 90      025146.00
        SIC,SEN                                               1310.00 80       025146.40
            BZXE,SERS          -ERR IF BIT LOST               1304.32 C0       025147.00
        LX,$X4,XCSZ1           -RESTORE IX REG.               21753.10 10      025147.40
        NOP,0                                                 0.30 00          025150.00
            NOP,0                                             0.30 00          025150.40
XCS11F  LX,$X5,XCSZ2                                          21754.12 10      025151.00
            LX,$X5,XCSZ1       -ALTERN WITH 0 AND ONES %5¤    21753.12 10      025151.40
        LX,$X5,XCSZ2                                          21754.12 10      025152.00
            LX,$X5,XCSZ1                                      21753.12 10      025152.40
        LX,$X5,XCSZ2                                          21754.12 10      025153.00
            LX,$X5,XCSZ1                                      21753.12 10      025153.40
        LX,$X5,XCSZ2                                          21754.12 10      025154.00
            LX,$X5,XCSZ1                                      21753.12 10      025154.40
        LX,$X5,XCSZ2                                          21754.12 10      025155.00
            LX,$X5,XCSZ1                                      21753.12 10      025155.40
        LX,$X5,XCSZ2                                          21754.12 10      025156.00
            LX,$X5,XCSZ1                                      21753.12 10      025156.40
        LX,$X5,XCSZ2                                          21754.12 10      025157.00
            LX,$X5,XCSZ1                                      21753.12 10      025157.40
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            LX,$X5,XCSZ2                                              21753.12 10              025160.00
                 LX,$X5,XCSZ1                                         21754.12 10              025160.40
            LX,$X5,XCSZ2                                              21753.12 10              025161.00
                 LX,$X5,XCSZ1                                         21754.12 10              025161.40
            LX,$X5,XCSZ2                                              21753.12 10              025162.00
                 LX,$X5,XCSZ1        -ALL ONES IN %5¤                 21754.12 10              025162.40
            KV,$X5,XCSZ1             -TEST BITS 0-24                   21753.12 90              025163.00
            SIC,SEN                                                   1310.00 80               025163.40
                 BZXEZ,SERS          -ERR IF BIT LOST                 1304.32 C4               025164.00
            KC,$X5,XCSZ1             -TEST BITS 28-45                  21753.13 90              025164.40
            SIC,SEN                                                   1310.00 80               025165.00
                 BZXE,SERS           -BITS MUST COMPARE               1304.32 C0               025165.40
            SR,$X5,XCSZ5             -REFILL TO WORK AREA             21756.13 70              025166.00
            SIC,SEN                                                   1310.00 80               025166.40
                 BZXF,SERS           -ERR IF XF NOT 1 AS IT SHD BE    1304.23 40               025167.00
            LC,$X5,XCSZ5             -REFILL INTO COUNT FIELD         21756.12 50              025167.40
            KC,$X5,XCSZ1             -TEST BITS 46-63                  21753.13 90              025170.00
            SIC,SEN                                                   1310.00 80               025170.40
                 BZXE,SERS           -ERR IF BIT LOST                 1304.32 C0               025171.00
            LX,$X5,XCSZ1             -RESTORE IX REG.                 21753.12 10              025171.40
            NOP,0                                                     0.30 00                  025172.00
                 NOP,0                                                0.30 00                  025172.40
XCS11G      LX,$X6,XCSZ2                                              21754.14 10              025173.00
                 LX,$X6,XCSZ1        -ALTERN WITH 0 AND ONES %6¤      21753.14 10              025173.40
            LX,$X6,XCSZ2                                              21754.14 10              025174.00
                 LX,$X6,XCSZ1                                         21753.14 10              025174.40
            LX,$X6,XCSZ2                                              21754.14 10              025175.00
                 LX,$X6,XCSZ1                                         21753.14 10              025175.40
            LX,$X6,XCSZ2                                              21754.14 10              025176.00
                 LX,$X6,XCSZ1                                         21753.14 10              025176.40
            LX,$X6,XCSZ2                                              21754.14 10              025177.00
                 LX,$X6,XCSZ1                                         21753.14 10              025177.40
            LX,$X6,XCSZ2                                              21754.14 10              025200.00
                 LX,$X6,XCSZ1                                         21753.14 10              025200.40
            LX,$X6,XCSZ2                                              21754.14 10              025201.00
                 LX,$X6,XCSZ1                                         21753.14 10              025201.40
            LX,$X6,XCSZ2                                              21754.14 10              025202.00
                 LX,$X6,XCSZ1                                         21753.14 10              025202.40
            LX,$X6,XCSZ2                                              21754.14 10              025203.00
                 LX,$X6,XCSZ1                                         21753.14 10              025203.40
            LX,$X6,XCSZ2                                              21754.14 10              025204.00
                 LX,$X6,XCSZ1        -ALL ONES IN %6¤                 21753.14 10              025204.40
            KV,$X6,XCSZ1             -TEST BITS 0-24                   21753.14 90              025205.00
            SIC,SEN                                                   1310.00 80               025205.40
                 BZXEZ,SERS          -ERR IF BIT LOST                 1304.32 C4               025206.00
            KC,$X6,XCSZ1             -TEST BITS 28-45                  21753.15 90              025206.40
            SIC,SEN                                                   1310.00 80               025207.00
                 BZXE,SERS           -BITS MUST COMPARE               1304.32 C0               025207.40
            SR,$X6,XCSZ5             -REFILL TO WORK AREA             21756.15 70              025210.00
            SIC,SEN                                                   1310.00 80               025210.40
                 BZXF,SERS           -ERR IF XF NOT 1 AS IT SHD BE    1304.23 40               025211.00
            LC,$X6,XCSZ5             -REFILL INTO COUNT FIELD         21756.14 50              025211.40
            KC,$X6,XCSZ1             -TEST BITS 46-63                  21753.15 90              025212.00
            SIC,SEN                                                   1310.00 80               025212.40
                 BZXE,SERS           -ERR IF BIT LOST                 1304.32 C0               025213.00
            LX,$X6,XCSZ1             -RESTORE IX REG.                 21753.14 10              025213.40
            NOP,0                                                     0.30 00                  025214.00
                 NOP,0                                                0.30 00                  025214.40
XCS11H      LX,$X7,XCSZ2                                              21754.16 10              025215.00
                 LX,$X7,XCSZ1        -ALTERN WITH 0 AND ONES %7¤      21753.16 10              025215.40
            LX,$X7,XCSZ2                                              21754.16 10              025216.00
                 LX,$X7,XCSZ1                                         21753.16 10              025216.40
            LX,$X7,XCSZ2                                              21754.16 10              025217.00
                 LX,$X7,XCSZ1                                         21753.16 10              025217.40
            LX,$X7,XCSZ2                                              21754.16 10              025220.00
                 LX,$X7,XCSZ1                                         21753.16 10              025220.40
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            LX,$X7,XCSZ2                                    21754.16 10              025221.00
                    LX,$X7,XCSZ1                            21753.16 10              025221.40
            LX,$X7,XCSZ2                                    21754.16 10              025222.00
                    LX,$X7,XCSZ1                            21753.16 10              025222.40
            LX,$X7,XCSZ2                                    21754.16 10              025223.00
                    LX,$X7,XCSZ1                            21753.16 10              025223.40
            LX,$X7,XCSZ2                                    21754.16 10              025224.00
                    LX,$X7,XCSZ1                            21753.16 10              025224.40
            LX,$X7,XCSZ2                                    21754.16 10              025225.00
                    LX,$X7,XCSZ1                            21753.16 10              025225.40
            LX,$X7,XCSZ2                                    21754.16 10              025226.00
                    LX,$X7,XCSZ1        -ALL ONES IN %7¤    21753.16 10              025226.40
            KV,$X7,XCSZ1               -TEST BITS 0-24      21753.16 90              025227.00
            SIC,SEN                                         1310.00 80               025227.40
                    BZXEZ,SERS         -ERR IF BIT LOST     1304.32 C4               025230.00
            KC,$X7,XCSZ1              -TEST BITS 28-45       21753.17 90              025230.40
            SIC,SEN                                         1310.00 80               025231.00
                    BZXE,SERS          -BITS MUST COMPARE   1304.32 C0               025231.40
            SR,$X7,XCSZ5              -REFILL TO WORK AREA   21756.17 70              025232.00
            SIC,SEN                                         1310.00 80               025232.40
                    BZXF,SERS          -ERR IF XF NOT 1 AS IT SHD BE  1304.23 40     025233.00
            LC,$X7,XCSZ5             -REFILL INTO COUNT FIELD  21756.16 50           025233.40
            KC,$X7,XCSZ1             -TEST BITS 46-63        21753.17 90              025234.00
            SIC,SEN                                         1310.00 80               025234.40
                    BZXE,SERS          -ERR IF BIT LOST     1304.32 C0               025235.00
            LX,$X7,XCSZ1             -RESTORE IX REG.        21753.16 10              025235.40
            NOP,0                                           0.30 00                  025236.00
                    NOP,0                                   0.30 00                  025236.40
XCS11J      LX,$X8,XCSZ2                                    21754.20 10              025237.00
                    LX,$X8,XCSZ1       -ALTERN WITH 0 AND ONES %8¤  21753.20 10      025237.40
            LX,$X8,XCSZ2                                    21754.20 10              025240.00
                    LX,$X8,XCSZ1                            21753.20 10              025240.40
            LX,$X8,XCSZ2                                    21754.20 10              025241.00
                    LX,$X8,XCSZ1                            21753.20 10              025241.40
            LX,$X8,XCSZ2                                    21754.20 10              025242.00
                    LX,$X8,XCSZ1                            21753.20 10              025242.40
            LX,$X8,XCSZ2                                    21754.20 10              025243.00
                    LX,$X8,XCSZ1                            21753.20 10              025243.40
            LX,$X8,XCSZ2                                    21754.20 10              025244.00
                    LX,$X8,XCSZ1                            21753.20 10              025244.40
            LX,$X8,XCSZ2                                    21754.20 10              025245.00
                    LX,$X8,XCSZ1                            21753.20 10              025245.40
            LX,$X8,XCSZ2                                    21754.20 10              025246.00
                    LX,$X8,XCSZ1                            21753.20 10              025246.40
            LX,$X8,XCSZ2                                    21754.20 10              025247.00
                    LX,$X8,XCSZ1                            21753.20 10              025247.40
            LX,$X8,XCSZ2                                    21754.20 10              025250.00
                    LX,$X8,XCSZ1       -ALL ONES IN %8¤     21753.20 10              025250.40
            KV,$X8,XCSZ1              -TEST BITS 0-24        21753.20 90              025251.00
            SIC,SEN                                         1310.00 80               025251.40
                    BZXEZ,SERS         -ERR IF BIT LOST     1304.32 C4               025252.00
            KC,$X8,XCSZ1             -TEST BITS 28-45        21753.21 90              025252.40
            SIC,SEN                                         1310.00 80               025253.00
                    BZXE,SERS          -BITS MUST COMPARE   1304.32 C0               025253.40
            SR,$X8,XCSZ5             -REFILL TO WORK AREA    21756.21 70              025254.00
            SIC,SEN                                         1310.00 80               025254.40
                    BZXF,SERS          -ERR IF XF NOT 1 AS IT SHD BE  1304.23 40     025255.00
            LC,$X8,XCSZ5            -REFILL INTO COUNT FIELD  21756.20 50            025255.40
            KC,$X8,XCSZ1            -TEST BITS 46-63         21753.21 90              025256.00
            SIC,SEN                                         1310.00 80               025256.40
                    BZXE,SERS          -ERR IF BIT LOST     1304.32 C0               025257.00
            LX,$X8,XCSZ1            -RESTORE IX REG.         21753.20 10              025257.40
            NOP,0                                           0.30 00                  025260.00
                    NOP,0                                   0.30 00                  025260.40
XCS11K      LX,$X9,XCSZ2                                    21754.22 10              025261.00
                    LX,$X9,XCSZ1       -ALTERN WITH 0 AND ONES %9¤  21753.22 10      025261.40
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                LX,$X9,XCSZ2                                              21754.22 10          025262.00
                        LX,$X9,XCSZ1                                      21753.22 10          025262.40
                LX,$X9,XCSZ2                                              21754.22 10          025263.00
                        LX,$X9,XCSZ1                                      21753.22 10          025263.40
                LX,$X9,XCSZ2                                              21754.22 10          025264.00
                        LX,$X9,XCSZ1                                      21753.22 10          025264.40
                LX,$X9,XCSZ2                                              21754.22 10          025265.00
                        LX,$X9,XCSZ1                                      21753.22 10          025265.40
                LX,$X9,XCSZ2                                              21754.22 10          025266.00
                        LX,$X9,XCSZ1                                      21753.22 10          025266.40
                LX,$X9,XCSZ2                                              21754.22 10          025267.00
                        LX,$X9,XCSZ1                                      21753.22 10          025267.40
                LX,$X9,XCSZ2                                              21754.22 10          025270.00
                        LX,$X9,XCSZ1                                      21753.22 10          025270.40
                LX,$X9,XCSZ2                                              21754.22 10          025271.00
                        LX,$X9,XCSZ1                                      21753.22 10          025271.40
                LX,$X9,XCSZ2                                              21754.22 10          025272.00
                        LX,$X9,XCSZ1        -ALL ONES IN %9¤             21753.22 10          025272.40
                KV,$X9,XCSZ1                -TEST BITS 0-24              21753.22 90          025273.00
                SIC,SEN                                                   1310.00 80           025273.40
                        BZXEZ,SERS          -ERR IF BIT LOST             1304.32 C4           025274.00
                KC,$X9,XCSZ1                -TEST BITS 28-45             21753.23 90          025274.40
                SIC,SEN                                                   1310.00 80           025275.00
                        BZXE,SERS           -BITS MUST COMPARE           1304.32 C0           025275.40
                SR,$X9,XCSZ5               -REFILL TO WORK AREA          21756.23 70          025276.00
                SIC,SEN                                                   1310.00 80           025276.40
                        BZXF,SERS           -ERR IF XF NOT 1 AS IT SHD BE 1304.23 40           025277.00
                LC,$X9,XCSZ5              -REFILL INTO COUNT FIELD       21756.22 50          025277.40
                KC,$X9,XCSZ1             -TEST BITS 46-63               21753.23 90          025300.00
                SIC,SEN                                                   1310.00 80           025300.40
                        BZXE,SERS           -ERR IF BIT LOST             1304.32 C0           025301.00
                LX,$X9,XCSZ1            -RESTORE IX REG.                21753.22 10          025301.40
                NOP,0                                                     0.30 00             025302.00
                        NOP,0                                             0.30 00             025302.40
XCS11L          LX,$X10,XCSZ2                                            21754.24 10          025303.00
                        LX,$X10,XCSZ1      -ALTERN WITH 0 AND ONES %10¤  21753.24 10          025303.40
                LX,$X10,XCSZ2                                            21754.24 10          025304.00
                        LX,$X10,XCSZ1                                    21753.24 10          025304.40
                LX,$X10,XCSZ2                                            21754.24 10          025305.00
                        LX,$X10,XCSZ1                                    21753.24 10          025305.40
                LX,$X10,XCSZ2                                            21754.24 10          025306.00
                        LX,$X10,XCSZ1                                    21753.24 10          025306.40
                LX,$X10,XCSZ2                                            21754.24 10          025307.00
                        LX,$X10,XCSZ1                                    21753.24 10          025307.40
                LX,$X10,XCSZ2                                            21754.24 10          025310.00
                        LX,$X10,XCSZ1                                    21753.24 10          025310.40
                LX,$X10,XCSZ2                                            21754.24 10          025311.00
                        LX,$X10,XCSZ1                                    21753.24 10          025311.40
                LX,$X10,XCSZ2                                            21754.24 10          025312.00
                        LX,$X10,XCSZ1                                    21753.24 10          025312.40
                LX,$X10,XCSZ2                                            21754.24 10          025313.00
                        LX,$X10,XCSZ1                                    21753.24 10          025313.40
                LX,$X10,XCSZ2                                            21754.24 10          025314.00
                        LX,$X10,XCSZ1      -ALL ONES IN %10¤             21753.24 10          025314.40
                KV,$X10,XCSZ1              -TEST BITS 0-24              21753.24 90          025315.00
                SIC,SEN                                                   1310.00 80           025315.40
                        BZXEZ,SERS          -ERR IF BIT LOST             1304.32 C4           025316.00
                KC,$X10,XCSZ1             -TEST BITS 28-45             21753.25 90          025316.40
                SIC,SEN                                                   1310.00 80           025317.00
                        BZXE,SERS           -BITS MUST COMPARE           1304.32 C0           025317.40
                SR,$X10,XCSZ5            -REFILL TO WORK AREA           21756.25 70          025320.00
                SIC,SEN                                                   1310.00 80           025320.40
                        BZXF,SERS           -ERR IF XF NOT 1 AS IT SHD BE 1304.23 40           025321.00
                LC,$X10,XCSZ5           -REFILL INTO COUNT FIELD        21756.24 50          025321.40
                KC,$X10,XCSZ1          -TEST BITS 46-63                21753.25 90          025322.00
                SIC,SEN                                                   1310.00 80           025322.40
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              BZXE,SERS          -ERR IF BIT LOST               1304.32 C0        025323.00
         LX,$X10,XCSZ1           -RESTORE IX REG.              21753.24 10        025323.40
         NOP,0                                                     0.30 00        025324.00
              NOP,0                                                0.30 00        025324.40
XCS11M   LX,$X11,XCSZ2                                         21754.26 10        025325.00
              LX,$X11,XCSZ1      -ALTERN WITH 0 AND ONES %11¤  21753.26 10        025325.40
         LX,$X11,XCSZ2                                         21754.26 10        025326.00
              LX,$X11,XCSZ1                                    21753.26 10        025326.40
         LX,$X11,XCSZ2                                         21754.26 10        025327.00
              LX,$X11,XCSZ1                                    21753.26 10        025327.40
         LX,$X11,XCSZ2                                         21754.26 10        025330.00
              LX,$X11,XCSZ1                                    21753.26 10        025330.40
         LX,$X11,XCSZ2                                         21754.26 10        025331.00
              LX,$X11,XCSZ1                                    21753.26 10        025331.40
         LX,$X11,XCSZ2                                         21754.26 10        025332.00
              LX,$X11,XCSZ1                                    21753.26 10        025332.40
         LX,$X11,XCSZ2                                         21754.26 10        025333.00
              LX,$X11,XCSZ1                                    21753.26 10        025333.40
         LX,$X11,XCSZ2                                         21754.26 10        025334.00
              LX,$X11,XCSZ1                                    21753.26 10        025334.40
         LX,$X11,XCSZ2                                         21754.26 10        025335.00
              LX,$X11,XCSZ1                                    21753.26 10        025335.40
         LX,$X11,XCSZ2                                         21754.26 10        025336.00
              LX,$X11,XCSZ1      -ALL ONES IN %11¤             21753.26 10        025336.40
         KV,$X11,XCSZ1           -TEST BITS 0-24               21753.26 90        025337.00
         SIC,SEN                                                1310.00 80        025337.40
              BZXEZ,SERS         -ERR IF BIT LOST               1304.32 C4        025340.00
         KC,$X11,XCSZ1           -TEST BITS 28-45              21753.27 90        025340.40
         SIC,SEN                                                1310.00 80        025341.00
              BZXE,SERS          -BITS MUST COMPARE             1304.32 C0        025341.40
         SR,$X11,XCSZ5           -REFILL TO WORK AREA          21756.27 70        025342.00
         SIC,SEN                                                1310.00 80        025342.40
              BZXF,SERS          -ERR IF XF NOT 1 AS IT SHD BE  1304.23 40        025343.00
         LC,$X11,XCSZ5           -REFILL INTO COUNT FIELD      21756.26 50        025343.40
         KC,$X11,XCSZ1           -TEST BITS 46-63              21753.27 90        025344.00
         SIC,SEN                                                1310.00 80        025344.40
              BZXE,SERS          -ERR IF BIT LOST               1304.32 C0        025345.00
         LX,$X11,XCSZ1           -RESTORE IX REG.              21753.26 10        025345.40
         NOP,0                                                     0.30 00        025346.00
              NOP,0                                                0.30 00        025346.40
XCS11N   LX,$X12,XCSZ2                                         21754.30 10        025347.00
              LX,$X12,XCSZ1      -ALTERN WITH 0 AND ONES %12¤  21753.30 10        025347.40
         LX,$X12,XCSZ2                                         21754.30 10        025350.00
              LX,$X12,XCSZ1                                    21753.30 10        025350.40
         LX,$X12,XCSZ2                                         21754.30 10        025351.00
              LX,$X12,XCSZ1                                    21753.30 10        025351.40
         LX,$X12,XCSZ2                                         21754.30 10        025352.00
              LX,$X12,XCSZ1                                    21753.30 10        025352.40
         LX,$X12,XCSZ2                                         21754.30 10        025353.00
              LX,$X12,XCSZ1                                    21753.30 10        025353.40
         LX,$X12,XCSZ2                                         21754.30 10        025354.00
              LX,$X12,XCSZ1                                    21753.30 10        025354.40
         LX,$X12,XCSZ2                                         21754.30 10        025355.00
              LX,$X12,XCSZ1                                    21753.30 10        025355.40
         LX,$X12,XCSZ2                                         21754.30 10        025356.00
              LX,$X12,XCSZ1                                    21753.30 10        025356.40
         LX,$X12,XCSZ2                                         21754.30 10        025357.00
              LX,$X12,XCSZ1                                    21753.30 10        025357.40
         LX,$X12,XCSZ2                                         21754.30 10        025360.00
              LX,$X12,XCSZ1      -ALL ONES IN %12¤             21753.30 10        025360.40
         KV,$X12,XCSZ1           -TEST BITS 0-24               21753.30 90        025361.00
         SIC,SEN                                                1310.00 80        025361.40
              BZXEZ,SERS         -ERR IF BIT LOST               1304.32 C4        025362.00
         KC,$X12,XCSZ1           -TEST BITS 28-45              21753.31 90        025362.40
         SIC,SEN                                                1310.00 80        025363.00
              BZXE,SERS          -BITS MUST COMPARE             1304.32 C0        025363.40
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          SR,$X12,XCSZ5              -REFILL TO WORK AREA            21756.31 70        025364.00
          SIC,SEN                                                   1310.00 80         025364.40
              BZXF,SERS             -ERR IF XF NOT 1 AS IT SHD BE   1304.23 40         025365.00
          LC,$X12,XCSZ5             -REFILL INTO COUNT FIELD        21756.30 50        025365.40
          KC,$X12,XCSZ1             -TEST BITS 46-63                21753.31 90        025366.00
          SIC,SEN                                                   1310.00 80         025366.40
              BZXE,SERS             -ERR IF BIT LOST                1304.32 C0         025367.00
          LX,$X12,XCSZ1             -RESTORE IX REG.                21753.30 10        025367.40
          NOP,0                                                     0.30 00            025370.00
              NOP,0                                                 0.30 00            025370.40
XCS11P    LX,$X13,XCSZ2                                             21754.32 10        025371.00
              LX,$X13,XCSZ1        -ALTERN WITH 0 AND ONES %13¤     21753.32 10        025371.40
          LX,$X13,XCSZ2                                             21754.32 10        025372.00
              LX,$X13,XCSZ1                                         21753.32 10        025372.40
          LX,$X13,XCSZ2                                             21754.32 10        025373.00
              LX,$X13,XCSZ1                                         21753.32 10        025373.40
          LX,$X13,XCSZ2                                             21754.32 10        025374.00
              LX,$X13,XCSZ1                                         21753.32 10        025374.40
          LX,$X13,XCSZ2                                             21754.32 10        025375.00
              LX,$X13,XCSZ1                                         21753.32 10        025375.40
          LX,$X13,XCSZ2                                             21754.32 10        025376.00
              LX,$X13,XCSZ1                                         21753.32 10        025376.40
          LX,$X13,XCSZ2                                             21754.32 10        025377.00
              LX,$X13,XCSZ1                                         21753.32 10        025377.40
          LX,$X13,XCSZ2                                             21754.32 10        025400.00
              LX,$X13,XCSZ1                                         21753.32 10        025400.40
          LX,$X13,XCSZ2                                             21754.32 10        025401.00
              LX,$X13,XCSZ1                                         21753.32 10        025401.40
          LX,$X13,XCSZ2                                             21754.32 10        025402.00
              LX,$X13,XCSZ1        -ALL ONES IN %13¤                21753.32 10        025402.40
          KV,$X13,XCSZ1            -TEST BITS 0-24                  21753.32 90        025403.00
          SIC,SEN                                                   1310.00 80         025403.40
              BZXEZ,SERS           -ERR IF BIT LOST                 1304.32 C4         025404.00
          KC,$X13,XCSZ1            -TEST BITS 28-45                 21753.33 90        025404.40
          SIC,SEN                                                   1310.00 80         025405.00
              BZXE,SERS            -BITS MUST COMPARE               1304.32 C0         025405.40
          SR,$X13,XCSZ5            -REFILL TO WORK AREA             21756.33 70        025406.00
          SIC,SEN                                                   1310.00 80         025406.40
              BZXF,SERS            -ERR IF XF NOT 1 AS IT SHD BE    1304.23 40         025407.00
          LC,$X13,XCSZ5           -REFILL INTO COUNT FIELD         21756.32 50        025407.40
          KC,$X13,XCSZ1           -TEST BITS 46-63                 21753.33 90        025410.00
          SIC,SEN                                                   1310.00 80         025410.40
              BZXE,SERS           -ERR IF BIT LOST                 1304.32 C0         025411.00
          LX,$X13,XCSZ1          -RESTORE IX REG.                  21753.32 10        025411.40
          NOP,0                                                     0.30 00            025412.00
              NOP,0                                                 0.30 00            025412.40
XCS11Q    LX,$X14,XCSZ2                                             21754.34 10        025413.00
              LX,$X14,XCSZ1       -ALTERN WITH 0 AND ONES %14¤      21753.34 10        025413.40
          LX,$X14,XCSZ2                                             21754.34 10        025414.00
              LX,$X14,XCSZ1                                         21753.34 10        025414.40
          LX,$X14,XCSZ2                                             21754.34 10        025415.00
              LX,$X14,XCSZ1                                         21753.34 10        025415.40
          LX,$X14,XCSZ2                                             21754.34 10        025416.00
              LX,$X14,XCSZ1                                         21753.34 10        025416.40
          LX,$X14,XCSZ2                                             21754.34 10        025417.00
              LX,$X14,XCSZ1                                         21753.34 10        025417.40
          LX,$X14,XCSZ2                                             21754.34 10        025420.00
              LX,$X14,XCSZ1                                         21753.34 10        025420.40
          LX,$X14,XCSZ2                                             21754.34 10        025421.00
              LX,$X14,XCSZ1                                         21753.34 10        025421.40
          LX,$X14,XCSZ2                                             21754.34 10        025422.00
              LX,$X14,XCSZ1                                         21753.34 10        025422.40
          LX,$X14,XCSZ2                                             21754.34 10        025423.00
              LX,$X14,XCSZ1                                         21753.34 10        025423.40
          LX,$X14,XCSZ2                                             21754.34 10        025424.00
              LX,$X14,XCSZ1       -ALL ONES IN %14¤                 21753.34 10        025424.40
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        KV,$X14,XCSZ1                      -TEST BITS 0-24                        21753.34 90        025425.00
        SIC,SEN                                                                   1310.00 80         025425.40
                BZXEZ,SERS                -ERR IF BIT LOST                        1304.32 C4         025426.00
        KC,$X14,XCSZ1                      -TEST BITS 28-45                       21753.35 90        025426.40
        SIC,SEN                                                                   1310.00 80         025427.00
                BZXE,SERS                 -BITS MUST COMPARE                      1304.32 C0         025427.40
        SR,$X14,XCSZ5                      -REFILL TO WORK AREA                   21756.35 70        025430.00
        SIC,SEN                                                                   1310.00 80         025430.40
                BZXF,SERS                 -ERR IF XF NOT 1 AS IT SHD BE           1304.23 40         025431.00
        LC,$X14,XCSZ5                      -REFILL INTO COUNT FIELD               21756.34 50        025431.40
        KC,$X14,XCSZ1                      -TEST BITS 46-63                       21753.35 90        025432.00
        SIC,SEN                                                                   1310.00 80         025432.40
                BZXE,SERS                 -ERR IF BIT LOST                        1304.32 C0         025433.00
        LX,$X14,XCSZ1                      -RESTORE IX REG.                       21753.34 10        025433.40
        NOP,0                                                                     0.30 00            025434.00
                NOP,0                                                             0.30 00            025434.40
XCS11R  LX,$X15,XCSZ2                                                             21754.36 10        025435.00
                LX,$X15,XCSZ1             -ALTERN WITH 0 AND ONES %15¤            21753.36 10        025435.40
        LX,$X15,XCSZ2                                                             21754.36 10        025436.00
                LX,$X15,XCSZ1                                                     21753.36 10        025436.40
        LX,$X15,XCSZ2                                                             21754.36 10        025437.00
                LX,$X15,XCSZ1                                                     21753.36 10        025437.40
        LX,$X15,XCSZ2                                                             21754.36 10        025440.00
                LX,$X15,XCSZ1                                                     21753.36 10        025440.40
        LX,$X15,XCSZ2                                                             21754.36 10        025441.00
                LX,$X15,XCSZ1                                                     21753.36 10        025441.40
        LX,$X15,XCSZ2                                                             21754.36 10        025442.00
                LX,$X15,XCSZ1                                                     21753.36 10        025442.40
        LX,$X15,XCSZ2                                                             21754.36 10        025443.00
                LX,$X15,XCSZ1                                                     21753.36 10        025443.40
        LX,$X15,XCSZ2                                                             21754.36 10        025444.00
                LX,$X15,XCSZ1                                                     21753.36 10        025444.40
        LX,$X15,XCSZ2                                                             21754.36 10        025445.00
                LX,$X15,XCSZ1                                                     21753.36 10        025445.40
        LX,$X15,XCSZ2                                                             21754.36 10        025446.00
                LX,$X15,XCSZ1            -ALL ONES IN %15¤                        21753.36 10        025446.40
        KV,$X15,XCSZ1                      -TEST BITS 0-24                        21753.36 90        025447.00
        SIC,SEN                                                                   1310.00 80         025447.40
                BZXEZ,SERS                -ERR IF BIT LOST                        1304.32 C4         025450.00
        KC,$X15,XCSZ1                      -TEST BITS 28-45                       21753.37 90        025450.40
        SIC,SEN                                                                   1310.00 80         025451.00
                BZXE,SERS                -BITS MUST COMPARE                       1304.32 C0         025451.40
        SR,$X15,XCSZ5                      -REFILL TO WORK AREA                   21756.37 70        025452.00
        SIC,SEN                                                                   1310.00 80         025452.40
                BZXF,SERS               -ERR IF XF NOT 1 AS IT SHD BE             1304.23 40         025453.00
        LC,$X15,XCSZ5                      -REFILL INTO COUNT FIELD               21756.36 50        025453.40
        KC,$X15,XCSZ1                      -TEST BITS 46-63                       21753.37 90        025454.00
        SIC,SEN                                                                   1310.00 80         025454.40
                BZXE,SERS               -ERR IF BIT LOST                         1304.32 C0         025455.00
        LX,$X15,XCSZ1                      -RESTORE IX REG.                       21753.36 10        025455.40
        NOP,0                                                                     0.30 00            025456.00
                NOP,0                                                             0.30 00            025456.40
        B,$+1.0                                                                   25460.10 00        025457.00
        B,XCS10                           -TO LOOP IN ALTERN 1 AND 0 TEST         24335.10 00        025457.40
        SIC,SEN0+.32                                                              1311.40 80         025460.00
                B,SSW        -TEST SENSE SWITCHES                                 1301.10 00         025460.40
XCS12   LX,$X0,XCSZ1                                                              21753.00 10        025461.00
                LX,$X1,XCSZ1             -INITIALIZE BY                           21753.02 10        025461.40
        LX,$X2,XCSZ1                                                              21753.04 10        025462.00
                LX,$X3,XCSZ1            -SETTING ALL IX                           21753.06 10        025462.40
        LX,$X4,XCSZ1                                                              21753.10 10        025463.00
                LX,$X5,XCSZ1            -REGS TO ONES                             21753.12 10        025463.40
        LX,$X6,XCSZ1                                                              21753.14 10        025464.00
                LX,$X7,XCSZ1            -PREPARE FOR                              21753.16 10        025464.40
        LX,$X8,XCSZ1                                                              21753.20 10        025465.00
                LX,$X9,XCSZ1           -XCS TO XCS                                21753.22 10        025465.40
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                LX,$X10,XCSZ1                                                21753.24 10              025466.00
                        LX,$X11,XCSZ1     -PATTERN TRANSFER                   21753.26 10              025466.40
                LX,$X12,XCSZ1                                                21753.30 10              025467.00
                        LX,$X13,XCSZ1     -TEST                              21753.32 10              025467.40
                LX,$X14,XCSZ1                                                21753.34 10              025470.00
                        LX,$X15,XCSZ1                                        21753.36 10              025470.40
XCS12A          LX,$X0,XCSZ20             -X0   WITH 10101 PATTERN           21770.00 10              025471.00
                LX,$X1,16.0               -X1   FROM X0                         20.02 10              025471.40
                LX,$X2,17.0               -X2   FROM X1                         21.04 10              025472.00
                LX,$X3,18.0               -X3   FROM X2                         22.06 10              025472.40
                LX,$X4,19.0               -X4   FROM X3                         23.10 10              025473.00
                LX,$X5,20.0               -X5   FROM X4                         24.12 10              025473.40
                LX,$X6,21.0               -X6   FROM X5                         25.14 10              025474.00
                LX,$X7,22.0               -X7   FROM X6                         26.16 10              025474.40
                LX,$X8,23.0               -X8   FROM X7                         27.20 10              025475.00
                LX,$X9,24.0               -X9   FROM X8                         30.22 10              025475.40
                LX,$X10,25.0              -X10 FROM X9                          31.24 10              025476.00
                LX,$X11,26.0              -X11 FROM X10                         32.26 10              025476.40
                LX,$X12,27.0              -X12 FROM X11                         33.30 10              025477.00
                LX,$X13,28.0              -X13 FROM X12                         34.32 10              025477.40
                LX,$X14,29.0              -X14 FROM X13                         35.34 10              025500.00
                LX,$X15,30.0              -X15 FROM X14                         36.36 10              025500.40
XCS12B          KV,$X15,XCSZ22           -WITH 10101 COMP PATTERN            21772.36 90              025501.00
                BZXE,XCS12V              -ERR IN VAL FLD OF X15 0-24         25506.72 CO              025501.40
XCS12C          KC,$X15,XCSZ22           -WITH 10101 COMP PATTERN            21772.37 90              025502.00
                BZXE,XCS12W              -ERR IN CNT FLD OF X15 28-45        25544.72 CO              025502.40
XCS12D          SR,$X15,XCSZ5            -REFILL INTO WORK AREA              21756.37 70              025503.00
                BXF,XCS12X               -ERR XF %SHD BE 0¤ IN X 15 25       25602.63 42              025503.40
XCS12E          SR,$X15,XCSZ5            -REFILL INTO WORK AREA              21756.37 70              025504.00
                LC,$X15,XCSZ5            -REFILL INTO CNT FLD                21756.36 50              025504.40
                KC,$X15,XCSZ22           -WITH 10101 COMP PATTERN            21772.37 90              025505.00
                BZXE,XCS12Y              -ERR IN REF FLD OF X15 46-63        25640.72 CO              025505.40
XCS12F          B,XCS13                  -TO NEXT TEST SECTION               25715.50 00              025506.00
XCS12V          KV,$X0,XCSZ22            -TEST V OF X0 WITH 10101 PATTERN    21772.00 90              025506.40
                SIC,SEN                                                      1310.00 80              025507.00
                        BZXE,SERS        -STOP V TEST WHEN FIRST             1304.32 CO              025507.40
                                         -ERR LOCATED
                BZXE,XCS12C              -V OF X0 WAS ERR NOW TEST COUNTS    25502.32 CO              025510.00
                KV,$X1,XCSZ22            -TEST V OF X1, 10101 PATTERN        21772.02 90              025510.40
                SIC,SEN                                                      1310.00 80              025511.00
                        BZXE,SERS        -V OF X1 WAS ERR NOW TEST COUNTS    1304.32 CO              025511.40
                BZXE,XCS12C                                                  25502.32 CO              025512.00
                KV,$X2,XCSZ22            -TEST V OF X2, 10101 PATTERN        21772.04 90              025512.40
                SIC,SEN                                                      1310.00 80              025513.00
                        BZXE,SERS        -V OF X2 WAS IN ERR                 1304.32 CO              025513.40
                BZXE,XCS12C                                                  25502.32 CO              025514.00
                KV,$X3,XCSZ22            -V OF X3 WITH 10101                  21772.06 90              025514.40
                SIC,SEN                                                      1310.00 80              025515.00
                        BZXE,SERS        -V OF X3 WAS IN ERR                 1304.32 CO              025515.40
                BZXE,XCS12C                                                  25502.32 CO              025516.00
                KV,$X4,XCSZ22            -V OF X4 WITH 10101                  21772.10 90              025516.40
                SIC,SEN                                                      1310.00 80              025517.00
                        BZXE,SERS        -V OF X4 WAS IN ERR                 1304.32 CO              025517.40
                BZXE,XCS12C                                                  25502.32 CO              025520.00
                KV,$X5,XCSZ22            -V OF X5 WITH 10101                  21772.12 90              025520.40
                SIC,SEN                                                      1310.00 80              025521.00
                        BZXE,SERS        -V OF X5 WAS IN ERR                 1304.32 CO              025521.40
                BZXE,XCS12C                                                  25502.32 CO              025522.00
                KV,$X6,XCSZ22            -V OF X3 WITH 10101                  21772.14 90              025522.40
                SIC,SEN                                                      1310.00 80              025523.00
                        BZXE,SERS        -V OF X6 WAS IN ERR                 1304.32 CO              025523.40
                BZXE,XCS12C                                                  25502.32 CO              025524.00
                KV,$X7,XCSZ22            -V OF X7 WITH 10101                  21772.16 90              025524.40
                SIC,SEN                                                      1310.00 80              025525.00
                        BZXE,SERS        -V OF X7 WAS IN ERR                 1304.32 CO              025525.40
                BZXE,XCS12C                                                  25502.32 CO              025526.00
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         KV,$X8,XCSZ22           -V OF X8 WITH 10101              21772.20 90        025526.40
         SIC,SEN                                                 1310.00 80         025527.00
               BZXE,SERS         -V OF X8 WAS IN ERR             1304.32 CO         025527.40
         BZXE,XCS12C                                             25502.32 CO        025530.00
         KV,$X9,XCSZ22           -V OF X9 WITH 10101              21772.22 90        025530.40
         SIC,SEN                                                 1310.00 80         025531.00
               BZXE,SERS         -V OF X9 WAS IN ERR             1304.32 CO         025531.40
         BZXE,XCS12C                                             25502.32 CO        025532.00
         KV,$X10,XCSZ22          -V OF X10 WITH 10101             21772.24 90        025532.40
         SIC,SEN                                                 1310.00 80         025533.00
               BZXE,SERS         -V OF X10 WAS IN ERR            1304.32 CO         025533.40
         BZXE,XCS12C                                             25502.32 CO        025534.00
         KV,$X11,XCSZ22          -V OF X11 WITH 10101             21772.26 90        025534.40
         SIC,SEN                                                 1310.00 80         025535.00
               BZXE,SERS         -V OF X11 WAS IN ERR            1304.32 CO         025535.40
         BZXE,XCS12C                                             25502.32 CO        025536.00
         KV,$X12,XCSZ22          -V OF X12 WITH 10101             21772.30 90        025536.40
         SIC,SEN                                                 1310.00 80         025537.00
               BZXE,SERS         -V OF X12 WAS IN ERR            1304.32 CO         025537.40
         BZXE,XCS12C                                             25502.32 CO        025540.00
         KV,$X14,XCSZ22          -V OF X14 WITH 10101             21772.34 90        025540.40
         SIC,SEN                                                 1310.00 80         025541.00
               BZXE,SERS         -V OF X13 OR X14 WAS IN ERR     1304.32 CO         025541.40
         BZXE,XCS12C                                             25502.32 CO        025542.00
         KV,$X14,XCSZ22          -V OF X15 WITH 10101 AGAIN       21772.34 90        025542.40
         SIC,SEN                                                 1310.00 80         025543.00
               BZXE,SERS         -V OF X15 WAS IN ERROR          1304.32 CO         025543.40
         B,XCS12C                                                25502.10 00        025544.00
XCS12W   KC,$X0,XCSZ22           -C OF X0 WITH 10101              21772.01 90        025544.40
         SIC,SEN                                                 1310.00 80         025545.00
               BZXE,SERS         -C OF X0 WAS IN ERR             1304.32 CO         025545.40
         BZXE,XCS12D                                             25503.32 CO        025546.00
         KC,$X1,XCSZ22           -C OF X1 WITH 10101              21772.03 90        025546.40
         SIC,SEN                                                 1310.00 80         025547.00
               BZXE,SERS         -C OF X1 WAS IN ERR             1304.32 CO         025547.40
         BZXE,XCS12D                                             25503.32 CO        025550.00
         KC,$X2,XCSZ22           -C OF X2 WITH 10101              21772.05 90        025550.40
         SIC,SEN                                                 1310.00 80         025551.00
               BZXE,SERS         -C OF X2 WAS IN ERR             1304.32 CO         025551.40
         BZXE,XCS12D                                             25503.32 CO        025552.00
         KC,$X3,XCSZ22           -C OF X3 WITH 10101              21772.07 90        025552.40
         SIC,SEN                                                 1310.00 80         025553.00
               BZXE,SERS         -C OF X3 WAS IN ERR             1304.32 CO         025553.40
         BZXE,XCS12D                                             25503.32 CO        025554.00
         KC,$X4,XCSZ22           -C OF X4 WITH 10101              21772.11 90        025554.40
         SIC,SEN                                                 1310.00 80         025555.00
               BZXE,SERS         -C OF X4 WAS IN ERR             1304.32 CO         025555.40
         BZXE,XCS12D                                             25503.32 CO        025556.00
         KC,$X5,XCSZ22           -C OF X5 WITH 10101              21772.13 90        025556.40
         SIC,SEN                                                 1310.00 80         025557.00
               BZXE,SERS         -C OF X5 WAS IN ERR             1304.32 CO         025557.40
         BZXE,XCS12D                                             25503.32 CO        025560.00
         KC,$X6,XCSZ22           -C OF X6 WITH 10101              21772.15 90        025560.40
         SIC,SEN                                                 1310.00 80         025561.00
               BZXE,SERS         -C OF X6 WAS IN ERR             1304.32 CO         025561.40
         BZXE,XCS12D                                             25503.32 CO        025562.00
         KC,$X7,XCSZ22           -C OF X7 WITH 10101              21772.17 90        025562.40
         SIC,SEN                                                 1310.00 80         025563.00
               BZXE,SERS         -C OF X7 WAS IN ERR             1304.32 CO         025563.40
         BZXE,XCS12D                                             25503.32 CO        025564.00
         KC,$X8,XCSZ22           -C OF X8 WITH 10101              21772.21 90        025564.40
         SIC,SEN                                                 1310.00 80         025565.00
               BZXE,SERS         -C OF X8 WAS IN ERR             1304.32 CO         025565.40
         BZXE,XCS12D                                             25503.32 CO        025566.00
         KC,$X9,XCSZ22           -C OF X9 WITH 10101              21772.23 90        025566.40
         SIC,SEN                                                 1310.00 80         025567.00
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Label	Instruction	Comment		
	BZXE,SERS	-C OF X9 WAS IN ERR	1304.32 CO	025567.40
	BZXE,XCS12D		25503.32 CO	025570.00
	KC,$X10,XCSZ22	-C OF X10 WITH 10101	21772.25 90	025570.40
	SIC,SEN		1310.00 80	025571.00
	BZXE,SERS	-C OF X10 WAS IN ERR	1304.32 CO	025571.40
	BZXE,XCS12D		25503.32 CO	025572.00
	KC,$X11,XCSZ22	-C OF X11 WITH 10101	21772.27 90	025572.40
	SIC,SEN		1310.00 80	025573.00
	BZXE,SERS	-C OF X11 WAS IN ERR	1304.32 CO	025573.40
	BZXE,XCS12D		25503.32 CO	025574.00
	KC,$X12,XCSZ22	-C OF X12 WITH 10101	21772.31 90	025574.40
	SIC,SEN		1310.00 80	025575.00
	BZXE,SERS	-C OF X12 WAS IN ERR	1304.32 CO	025575.40
	BZXE,XCS12D		25503.32 CO	025576.00
	KC,$X14,XCSZ22	-C OF X14 WITH 10101	21772.35 90	025576.40
	BZXE,XCS12D		25503.32 CO	025577.00
	SIC,SEN		1310.00 80	025577.40
	BZXE,SERS	-C OF X13 OR X14 WAS 2N ERR	1304.32 CO	025600.00
	SIC,SEN		1310.00 80	025600.40
	BZXE,SERS	-C OF X15 WAS IN ERR	1304.32 CO	025601.00
	KC,$X15,XCSZ22	-C OF X15 WITH 10101	21772.37 90	025601.40
	B,XCS12D		25503.10 00	025602.00
XCS12X	SX,$X0,XCSZ5		21756.01 10	025602.40
	SIC,SEN		1310.00 80	025603.00
	BXF,SERS	-X0 ERR IF XF IS ONE	1304.23 42	025603.40
	BXF,XCS12E		25504.23 42	025604.00
	SX,$X1,XCSZ5		21756.03 10	025604.40
	SIC,SEN		1310.00 80	025605.00
	BXF,SERS	-X1 ERR IF XF IS ONE	1304.23 42	025605.40
	BXF,XCS12E		25504.23 42	025606.00
	SX,$X2,XCSZ5		21756.05 10	025606.40
	SIC,SEN		1310.00 80	025607.00
	BXF,SERS	-X2 ERR IF XF IS ONE	1304.23 42	025607.40
	BXF,XCS12E		25504.23 42	025610.00
	SX,$X3,XCSZ5		21756.07 10	025610.40
	SIC,SEN		1310.00 80	025611.00
	BXF,SERS	-X3 ERR IF XF IS ONE	1304.23 42	025611.40
	BXF,XCS12E		25504.23 42	025612.00
	SX,$X4,XCSZ5		21756.11 10	025612.40
	SIC,SEN		1310.00 80	025613.00
	BXF,SERS	-X4 ERR IF XF IS ONE	1304.23 42	025613.40
	BXF,XCS12E		25504.23 42	025614.00
	SX,$X5,XCSZ5		21756.13 10	025614.40
	SIC,SEN		1310.00 80	025615.00
	BXF,SERS	-X5 ERR IF XF IS ONE	1304.23 42	025615.40
	BXF,XCS12E		25504.23 42	025616.00
	SX,$X6,XCSZ5		21756.15 10	025616.40
	SIC,SEN		1310.00 80	025617.00
	BXF,SERS	-X6 ERR IF XF IS ONE	1304.23 42	025617.40
	BXF,XCS12E		25504.23 42	025620.00
	SX,$X7,XCSZ5		21756.17 10	025620.40
	SIC,SEN		1310.00 80	025621.00
	BXF,SERS	-X7 ERR IF XF IS ONE	1304.23 42	025621.40
	BXF,XCS12E		25504.23 42	025622.00
	SX,$X8,XCSZ5		21756.21 10	025622.40
	SIC,SEN		1310.00 80	025623.00
	BXF,SERS	-X8 ERR IF XF IS ONE	1304.23 42	025623.40
	BXF,XCS12E		25504.23 42	025624.00
	SX,$X9,XCSZ5		21756.23 10	025624.40
	SIC,SEN		1310.00 80	025625.00
	BXF,SERS	-X9 ERR IF XF IS ONE	1304.23 42	025625.40
	BXF,XCS12E		25504.23 42	025626.00
	SX,$X10,XCSZ5		21756.25 10	025626.40
	SIC,SEN		1310.00 80	025627.00
	BXF,SERS	-X10 ERR IF XF IS ONE	1304.23 42	025627.40
	BXF,XCS12E		25504.23 42	025630.00

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          SX,$X11,XCSZ5                                      21756.27 10          025630.40
          SIC,SEN                                            1310.00 80           025631.00
                BXF,SERS        -X11 ERR IF XF IS ONE        1304.23 42           025631.40
          BXF,XCS12E                                         25504.23 42          025632.00
          SX,$X12,XCSZ5                                      21756.31 10          025632.40
          SIC,SEN                                            1310.00 80           025633.00
                BXF,SERS        -X12 ERR IF XF IS ONE        1304.23 42           025633.40
          BXF,XCS12E                                         25504.23 42          025634.00
          SX,$X14,XCSZ5                                      21756.35 10          025634.40
          SIC,SEN                                            1310.00 80           025635.00
                BXF,SERS        -X13 OR X14 ERR IF XF IS ONE 1304.23 42           025635.40
          BXF,XCS12E                                         25504.23 42          025636.00
          SX,$X15,XCSZ5                                      21756.37 10          025636.40
          SIC,SEN                                            1310.00 80           025637.00
                BXF,SERS        -X15 ERR IF XF IS ONE        1304.23 42           025637.40
          B,XCS12E                                           25504.10 00          025640.00
XCS12Y    SR,$X0,XCSZ5                                       21756.01 70          025640.40
                LC,$X0,XCSZ5                                 21756.00 50          025641.00
          KC,$X0,XCSZ22       -WITH 10101 PATTERN           21772.01 90          025641.40
          SIC,SEN                                            1310.00 80           025642.00
                BZXE,SERS       -X0  REFILL ERR              1304.32 C0           025642.40
          BZXE,XCS13                                         25715.72 C0          025643.00
          SR,$X1,XCSZ5                                       21756.03 70          025643.40
                LC,$X1,XCSZ5                                 21756.02 50          025644.00
          KC,$X1,XCSZ22       -WITH 10101 PATTERN           21772.03 90          025644.40
          SIC,SEN                                            1310.00 80           025645.00
                BZXE,SERS       -X1  REFILL ERR              1304.32 C0           025645.40
          BZXE,XCS13                                         25715.72 C0          025646.00
          SR,$X2,XCSZ5                                       21756.05 70          025646.40
                LC,$X2,XCSZ5                                 21756.04 50          025647.00
          KC,$X2,XCSZ22       -WITH 10101 PATTERN           21772.05 90          025647.40
          SIC,SEN                                            1310.00 80           025650.00
                BZXE,SERS       -X2  REFILL ERR              1304.32 C0           025650.40
          BZXE,XCS13                                         25715.72 C0          025651.00
          SR,$X3,XCSZ5                                       21756.07 70          025651.40
                LC,$X3,XCSZ5                                 21756.06 50          025652.00
          KC,$X3,XCSZ22       -WITH 10101 PATTERN           21772.07 90          025652.40
          SIC,SEN                                            1310.00 80           025653.00
                BZXE,SERS       -X3  REFILL ERR              1304.32 C0           025653.40
          BZXE,XCS13                      .                  25715.72 C0          025654.00
          SR,$X4,XCSZ5                                       21756.11 70          025654.40
                LC,$X4,XCSZ5                                 21756.10 50          025655.00
          KC,$X4,XCSZ22       -WITH 10101 PATTERN           21772.11 90          025655.40
          SIC,SEN                                            1310.00 80           025656.00
                BZXE,SERS       -X4  REFILL ERR              1304.32 C0           025656.40
          BZXE,XCS13          -TO TEST REFILL FIELDS         25715.72 C0          025657.00
          SR,$X5,XCSZ5                                       21756.13 70          025657.40
                LC,$X5,XCSZ5                                 21756.12 50          025660.00
          KC,$X5,XCSZ22       -WITH 10101 PATTERN           21772.13 90          025660.40
          SIC,SEN                                            1310.00 80           025661.00
                BZXE,SERS       -X5  REFILL ERR              1304.32 C0           025661.40
          BZXE,XCS13                                         25715.72 C0          025662.00
          SR,$X6,XCSZ5                                       21756.15 70          025662.40
                LC,$X6,XCSZ5                                 21756.14 50          025663.00
          KC,$X6,XCSZ22       -WITH 10101 PATTERN           21772.15 90          025663.40
          SIC,SEN                                            1310.00 80           025664.00
                BZXE,SERS       -X6  REFILL ERR              1304.32 C0           025664.40
          BZXE,XCS13                                         25715.72 C0          025665.00
          SR,$X7,XCSZ5                                       21756.17 70          025665.40
                LC,$X7,XCSZ5                                 21756.16 50          025666.00
          KC,$X7,XCSZ22       -WITH 10101 PATTERN           21772.17 90          025666.40
          SIC,SEN                                            1310.00 80           025667.00
                BZXE,SERS       -X7  REFILL ERR              1304.32 C0           025667.40
          BZXE,XCS13                                         25715.72 C0          025670.00
          SR,$X8,XCSZ5                                       21756.21 70          025670.40
                LC,$X8,XCSZ5                                 21756.20 50          025671.00
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                KC,$X8,XCSZ22              -WITH 10101 PATTERN            21772.21 90        025671.40
        SIC,SEN                                                          1310.00 80         025672.00
                BZXE,SERS                 -X8  REFILL ERR                1304.32 CO         025672.40
        BZXE,XCS13                                                       25715.72 CO        025673.00
        SR,$X9,XCSZ5                                                     21756.23 70        025673.40
                LC,$X9,XCSZ5                                             21756.22 50        025674.00
                KC,$X9,XCSZ22             -WITH 10101 PATTERN            21772.23 90        025674.40
        SIC,SEN                                                          1310.00 80         025675.00
                BZXE,SERS                 -X9  REFILL ERR                1304.32 CO         025675.40
        BZXE,XCS13                                                       25715.72 CO        025676.00
        SR,$X10,XCSZ5                                                    21756.25 70        025676.40
                LC,$X10,XCSZ5                                            21756.24 50        025677.00
                KC,$X10,XCSZ22            -WITH 10101 PATTERN            21772.25 90        025677.40
        SIC,SEN                                                          1310.00 80         025700.00
                BZXE,SERS                 -X10 REFILL ERR                1304.32 CO         025700.40
        BZXE,XCS13                                                       25715.72 CO        025701.00
        SR,$X11,XCSZ5                                                    21756.27 70        025701.40
                LC,$X11,XCSZ5                                            21756.26 50        025702.00
                KC,$X11,XCSZ22           -WITH 10101 PATTERN            21772.27 90        025702.40
        SIC,SEN                                                          1310.00 80         025703.00
                BZXE,SERS                 -X11 REFILL ERR                1304.32 CO         025703.40
        BZXE,XCS13                                                       25715.72 CO        025704.00
        SR,$X12,XCSZ5                                                    21756.31 70        025704.40
                LC,$X12,XCSZ5                                            21756.30 50        025705.00
                KC,$X12,XCSZ22           -WITH 10101 PATTERN            21772.31 90        025705.40
        SIC,SEN                                                          1310.00 80         025706.00
                BZXE,SERS                 -X12 REFILL ERR                1304.32 CO         025706.40
        BZXE,XCS13                                                       25715.72 CO        025707.00
        SR,$X14,XCSZ5                                                    21756.35 70        025707.40
                LC,$X14,XCSZ5                                            21756.34 50        025710.00
                KC,$X14,XCSZ22           -WITH 10101 PATTERN            21772.35 90        025710.40
        SIC,SEN                                                          1310.00 80         025711.00
                BZXE,SERS                 -X13 OR X14 REFILL ERR         1304.32 CO         025711.40
        BZXE,XCS13                                                       25715.72 CO        025712.00
        SR,$X15,XCSZ5                                                    21756.37 70        025712.40
                LC,$X15,XCSZ5                                            21756.36 50        025713.00
                KC,$X15,XCSZ22           -WITH 10101 PATTERN            21772.37 90        025713.40
        SIC,SEN                                                          1310.00 80         025714.00
                BZXE,SERS                 -X15 REFILL ERR                1304.32 CO         025714.40
        BZXE,XCS13                                                       25715.72 CO        025715.00
XCS13   LX,$X0,XCSZ1                                                     21753.00 10        025715.40
                LX,$X1,XCSZ1             -INITIALIZE BY                  21753.02 10        025716.00
        LX,$X2,XCSZ1                                                     21753.04 10        025716.40
                LX,$X3,XCSZ1             -SETTING ALL IX                 21753.06 10        025717.00
        LX,$X4,XCSZ1                                                     21753.10 10        025717.40
                LX,$X5,XCSZ1            -REGS TO ONES                    21753.12 10        025720.00
        LX,$X6,XCSZ1                                                     21753.14 10        025720.40
                LX,$X7,XCSZ1           -PREPARE FOR                      21753.16 10        025721.00
        LX,$X8,XCSZ1                                                     21753.20 10        025721.40
                LX,$X9,XCSZ1           -XCS TO XCS                       21753.22 10        025722.00
        LX,$X10,XCSZ1                                                    21753.24 10        025722.40
                LX,$X11,XCSZ1          -PATTERN TRANSFER                 21753.26 10        025723.00
        LX,$X12,XCSZ1                                                    21753.30 10        025723.40
                LX,$X13,XCSZ1          -STORE                           21753.32 10        025724.00
        LX,$X14,XCSZ1                                                    21753.34 10        025724.40
                LX,$X15,XCSZ1          -TEST                            21753.36 10        025725.00
XCS13A  LX,$X15,XCSZ21                -X15 WITH 01010 PATTERN           21771.36 10        025725.40
        SX,$X15,30,0                 -X14 FROM X15                     36.37 10           025726.00
        SX,$X14,29,0                 -X13 FROM X14                     35.35 10           025726.40
        SX,$X13,28,0                 -X12 FROM X13                     34.33 10           025727.00
        SX,$X12,27,0                 -X11 FROM X12                     33.31 10           025727.40
        SX,$X11,26,0                 -X10 FROM X11                     32.27 10           025730.00
        SX,$X10,25,0                 -X9  FROM X10                     31.25 10           025730.40
        SX,$X9,24,0                  -X8  FROM X9                      30.23 10           025731.00
        SX,$X8,23,0                  -X7  FROM X8                      27.21 10           025731.40
        SX,$X7,22,0                  -X6  FROM X7                      26.17 10           025732.00
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                              SX,$X6,21.0        -X5   FROM X6                       25.15 10          025732.40
                              SX,$X5,20.0        -X4   FROM X5                       24.13 10          025733.00
                              SX,$X4,19.0        -X3   FROM X4                       23.11 10          025733.40
                              SX,$X3,18.0        -X2   FROM X3                       22.07 10          025734.00
                              SX,$X2,17.0        -X1 FROM X2                         21.05 10          025734.40
                              SX,$X1,16.0        -X0 FROM X1                         20.03 10          025735.00
        XCS13B   KV,$X0,XCSZ23                   -WITH 01010 COMP ATTERN            21772.40 90        025735.40
                 BZXE,XCS13V                     -ERR IN V OF X0 0-24               25747.72 CO        025736.00
        XCS13C   KC,$X0,XCSZ23                   -WITH 01010 COMP PATTERN           21772.41 90        025736.40
                 BZXE,XCS13W                     -ERR IN C OF X0 28-45              26005.72 CO        025737.00
        XCS13D   SR,$X0,XCSZ5                    -REFILL INTO WORK AREA             21756.01 70        025737.40
                 BZXF,XCS13X                     -ERR IF XF IS 0 25                 26043.63 40        025740.00
        XCS13E   SR,$X0,XCSZ5                    -REFILL INTO WORK AREA             21756.01 70        025740.40
                 LC,$X0,XCSZ5                    -REFILL INTO COUNT FIELD           21756.00 50        025741.00
                 KC,$X0,XCSZ23                   -WITH 01010 COMP PATTERN           21772.41 90        025741.40
                 BZXE,XCS13Y                     -ERR IN REF 46-63                  26101.32 CO        025742.00
        XCS13F   NOP,0                                                                 0.30 00         025742.40
                 NOP,0                                                                 0.30 00         025743.00
                 B,$+1.0                                                            25744.50 00        025743.40
                     B,XCS12                     --TO TEST FOR LOOPING              25461.10 00        025744.00
                 SIC,SEN0+.32                                                        1311.40 80        025744.40
                     B,SSW                       -OR TO PROCEED TO NEXT TEST         1301.10 00        025745.00
                 B,XCS14                         -TO NEXT TEST                      26156.10 00        025745.40
                 NOP,0                                                                 0.30 00         025746.00
                     NOP,0                                                             0.30 00         025746.40
                 NOP,0                                                                 0.30 00         025747.00
        XCS13V   KV,$X15,XCSZ23                  -V OF X15 WITH 01010 PATTERN       21772.76 90        025747.40
                 SIC,SEN                                                             1310.00 80        025750.00
                     BZXE,SERS                   -ERR IN V OF X15                    1304.32 CO        025750.40
                 BZXE,XCS13C                                                        25736.72 CO        025751.00
                 KV,$X14,XCSZ23                  -V OF X14 WITH 01010 PATTERN       21772.74 90        025751.40
                 SIC,SEN                                                             1310.00 80.       025752.00
                     BZXE,SERS                   -ERR IN V OF X14                    1304.32 CO        025752.40
                 BZXE,XCS13C                                                        25736.72 CO        025753.00
                 KV,$X12,XCSZ23                  -V OF X12 WITH 01010 PATTERN       21772.70 90        025753.40
                 SIC,SEN                                                             1310.00 80        025754.00
                     BZXE,SERS                   -ERR IN V OF X13 OR X14            1304.32 CO         025754.40
                 BZXE,XCS13C                                                        25736.72 CO        025755.00
                 KV,$X11,XCSZ23                  -V OF X11 WITH 01010 PATTERN       21772.66 90        025755.40
                 SIC,SEN                                                             1310.00 80        025756.00
                     BZXE,SERS                   -ERR IN V OF X11                    1304.32 CO        025756.40
                 BZXE,XCS13C                                                        25736.72 CO        025757.00
                 KV,$X10,XCSZ23                  -V OF X10 WITH 01010 PATTERN       21772.64 90        025757.40
                 SIC,SEN                                                             1310.00 80        025760.00
                     BZXE,SERS                   -ERR IN V OF X10                    1304.32 CO        025760.40
                 BZXE,XCS13C                                                        25736.72 CO        025761.00
                 KV,$X9,XCSZ23                   -V OF X9 WITH 01010 PATTERN        21772.62 90        025761.40
                 SIC,SEN                                                             1310.00 80        025762.00
                     BZXE,SERS                   -ERR IN V OF X9                     1304.32 CO        025762.40
                 BZXE,XCS13C                                                        25736.72 CO        025763.00
                 KV,$X8,XCSZ23                   -V OF X8 WITH 01010 PATTERN        21772.60 90        025763.40
                 SIC,SEN                                                             1310.00 80        025764.00
                     BZXE,SERS                   -ERR IN V OF X8                     1304.32 CO        025764.40
                 BZXE,XCS13C                                                        25736.72 CO        025765.00
                 KV,$X7,XCSZ23                   -V OF X7 WITH 01010 PATTERN        21772.56 90        025765.40
                 SIC,SEN                                                             1310.00 80        025766.00
                     BZXE,SERS                   -ERR IN V OF X7                     1304.32 CO        025766.40
                 BZXE,XCS13C                                                        25736.72 CO        025767.00
                 KV,$X6,XCSZ23                   -V OF X6 WITH 01010 PATTERN        21772.54 90        025767.40
                 SIC,SEN                                                             1310.00 80        025770.00
                     BZXE,SERS                   -ERR IN V OF X6                     1304.32 CO        025770.40
                 BZXE,XCS13C                                                        25736.72 CO        025771.00
                 KV,$X5,XCSZ23                   -V OF X5 WITH 01010 PATTERN        21772.52 90        025771.40
                 SIC,SEN                                                             1310.00 80        025772.00
                     BZXE,SERS                   -ERR IN V OF X5                     1304.32 CO        025772.40
                 BZXE,XCS13C                                                        25736.72 CO        025773.00
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          KV,$X4,XCSZ23           -V OF X4 WITH 01010 PATTERN       21772.50 90        025773.40
          SIC,SEN                                                   1310.00 80         025774.00
              BZXE,SERS           -ERR IN V OF X4                   1304.32 CO         025774.40
          BZXE,XCS13C                                               25736.72 CO        025775.00
          KV,$X3,XCSZ23           -V OF X3 WITH 01010 PATTERN       21772.46 90        025775.40
          SIC,SEN                                                   1310.00 80         025776.00
              BZXE,SERS           -ERR IN V OF X3                   1304.32 CO         025776.40
          BZXE,XCS13C                                               25736.72 CO        025777.00
          KV,$X2,XCSZ23           -V OF X2 WITH 01010 PATTERN       21772.44 90        025777.40
          SIC,SEN                                                   1310.00 80         026000.00
              BZXE,SERS           -ERR IN V OF X2                   1304.32 CO         026000.40
          BZXE,XCS13C                                               25736.72 CO        026001.00
          KV,$X1,XCSZ23           -V OF X1 WITH 01010 PATTERN       21772.42 90        026001.40
          SIC,SEN                                                   1310.00 80         026002.00
              BZXE,SERS           -ERR IN V OF X1                   1304.32 CO         026002.40
          BZXE,XCS13C                                               25736.72 CO        026003.00
          KV,$X0,XCSZ23           -V OF X0 WITH 01010 PATTERN       21772.40 90        026003.40
          SIC,SEN                                                   1310.00 80         026004.00
              BZXE,SERS           -ERR IN V OF X0                   1304.32 CO         026004.40
          BZXE,XCS13C             -NOW TEST COUNT FIELDS            25736.72 CO        026005.00
XCS13W    KC,$X15,XCSZ23          -C OF X15 WITH 01010 PATTERN      21772.77 90        026005.40
          SIC,SEN                                                   1310.00 80         026006.00
              BZXE,SERS           -ERR IN C OF X15                  1304.32 CO         026006.40
          BZXE,XCS13D                                               25737.72 CO        026007.00
          KC,$X14,XCSZ23          -C OF X14 WITH 01010 PATTERN      21772.75 90        026007.40
          SIC,SEN                                                   1310.00 80         026010.00
              BZXE,SERS           -ERR IN C OF X14                  1304.32 CO         026010.40
          BZXE,XCS13D                                               25737.72 CO        026011.00
          KC,$X12,XCSZ23          -C OF X12 WITH 01010 PATTERN      21772.71 90        026011.40
          SIC,SEN                                                   1310.00 80         026012.00
              BZXE,SERS           -ERR IN C OF X13 OR X12           1304.32 CO         026012.40
          BZXE,XCS13D                                               25737.72 CO        026013.00
          KC,$X11,XCSZ23          -C OF X11 WITH 01010 PATTERN      21772.67 90        026013.40
          SIC,SEN                                                   1310.00 80         026014.00
              BZXE,SERS           -ERR IN C OF X11                  1304.32 CO         026014.40
          BZXE,XCS13D                                               25737.72 CO        026015.00
          KC,$X10,XCSZ23          -C OF X10 WITH 01010 PATTERN      21772.65 90        026015.40
          SIC,SEN                                                   1310.00 80         026016.00
              BZXE,SERS           -ERR IN C OF X10                  1304.32 CO         026016.40
          BZXE,XCS13D                                               25737.72 CO        026017.00
          KC,$X9,XCSZ23           -C OF X9 WITH 01010 PATTERN       21772.63 90        026017.40
          SIC,SEN                                                   1310.00 80         026020.00
              BZXE,SERS           -ERR IN C OF X9                   1304.32 CO         026020.40
          BZXE,XCS13D                                               25737.72 CO        026021.00
          KC,$X8,XCSZ23           -C OF X8 WITH 01010 PATTERN       21772.61 90        026021.40
          SIC,SEN                                                   1310.00 80         026022.00
              BZXE,SERS           -ERR IN C OF X8                   1304.32 CO         026022.40
          BZXE,XCS13D                                               25737.72 CO        026023.00
          KC,$X7,XCSZ23           -C OF X7 WITH 01010 PATTERN       21772.57 90        026023.40
          SIC,SEN                                                   1310.00 80         026024.00
              BZXE,SERS           -ERR IN C OF X7                   1304.32 CO         026024.40
          BZXE,XCS13D                                               25737.72 CO        026025.00
          KC,$X6,XCSZ23           -C OF X6 WITH 01010 PATTERN       21772.55 90        026025.40
          SIC,SEN                                                   1310.00 80         026026.00
              BZXE,SERS           -ERR IN C OF X6                   1304.32 CO         026026.40
          BZXE,XCS13D                                               25737.72 CO        026027.00
          KC,$X5,XCSZ23           -C OF X5 WITH 01010 PATTERN       21772.53 90        026027.40
          SIC,SEN                                                   1310.00 80         026030.00
              BZXE,SERS           -ERR IN C OF X5                   1304.32 CO         026030.40
          BZXE,XCS13D                                               25737.72 CO        026031.00
          KC,$X4,XCSZ23           -C OF X4 WITH 01010 PATTERN       21772.51 90        026031.40
          SIC,SEN                                                   1310.00 80         026032.00
              BZXE,SERS           -ERR IN C OF X3                   1304.32 CO         026032.40
          BZXE,XCS13D                                               25737.72 CO        026033.00
          KC,$X3,XCSZ23           -C OF X3 WITH 01010 PATTERN       21772.47 90        026033.40
          SIC,SEN                                                   1310.00 80         026034.00
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                BZXE,SERS           -ERR IN C OF X2                    1304.32 CO          026034.40
          BZXE,XCS13D                                                 25737.72 CO          026035.00
          KC,$X2,XCSZ23             -C OF X2 WITH 01010 PATTERN        21772.45 90          026035.40
          SIC,SEN                                                     1310.00 80           026036.00
                BZXE,SERS           -ERR IN C OF X1                    1304.32 CO          026036.40
          BZXE,XCS13D                                                 25737.72 CO          026037.00
          KC,$X1,XCSZ23             -C OF X1 WITH 01010 PATTERN        21772.43 90          026037.40
          SIC,SEN                                                     1310.00 80           026040.00
                BZXE,SERS           -ERR IN C OF X0                    1304.32 CO          026040.40
          BZXE,XCS13D                                                 25737.72 CO          026041.00
          KC,$X0,XCSZ23             -C OF X0 WITH 01010 PATTERN        21772.41 90          026041.40
          SIC,SEN                                                     1310.00 80           026042.00
                BZXE,SERS           -ERR IN C OF X0                    1304.32 CO          026042.40
          B,XCS13D                  -NOW TEST INDEX FLAG BIT           25737.50 00          026043.00
XCS13X    SX,$X15,XCSZ5                                                21756.37 10          026043.40
          SIC,SEN                                                     1310.00 80           026044.00
                BZXF,SERS           -ERR IF XF OF X15 NOT 1            1304.23 40           026044.40
          BZXF,XCS13E                                                 25740.63 40          026045.00
          SX,$X14,XCSZ5                                                21756.35 10          026045.40
          SIC,SEN                                                     1310.00 80           026046.00
                BZXF,SERS           -ERR IF XF OF X14 NOT 1            1304.23 40           026046.40
          BZXF,XCS13E                                                 25740.63 40          026047.00
          SX,$X12,XCSZ5                                                21756.31 10          026047.40
          SIC,SEN                                                     1310.00 80           026050.00
                BZXF,SERS           -ERR IN X13 OR X12 IF XF NOT 1     1304.23 40           026050.40
          BZXF,XCS13E                                                 25740.63 40          026051.00
          SX,$X11,XCSZ5                                                21756.27 10          026051.40
          SIC,SEN                                                     1310.00 80           026052.00
                BZXF,SERS           -ERR IF XF OF X11 NOT 1            1304.23 40           026052.40
          BZXF,XCS13E                                                 25740.63 40          026053.00
          SX,$X10,XCSZ5                                                21756.25 10          026053.40
          SIC,SEN                                                     1310.00 80           026054.00
                BZXF,SERS           -ERR IF XF OF X10 NOT 1            1304.23 40           026054.40
          BZXF,XCS13E                                                 25740.63 40          026055.00
          SX,$X9,XCSZ5                                                 21756.23 10          026055.40
          SIC,SEN                                                     1310.00 80           026056.00
                BZXF,SERS           -ERR IF XF OF X9  NOT 1            1304.23 40           026056.40
          BZXF,XCS13E                                                 25740.63 40          026057.00
          SX,$X8,XCSZ5                                                 21756.21 10          026057.40
          SIC,SEN                                                     1310.00 80           026060.00
                BZXF,SERS           -ERR IF XF OF X8  NOT 1            1304.23 40           026060.40
          BZXF,XCS13E                                                 25740.63 40          026061.00
          SX,$X7,XCSZ5                                                 21756.17 10          026061.40
          SIC,SEN                                                     1310.00 80           026062.00
                BZXF,SERS           -ERR IF XF OF X7  NOT 1            1304.23 40           026062.40
          BZXF,XCS13E                                                 25740.63 40          026063.00
          SX,$X6,XCSZ5                                                 21756.15 10          026063.40
          SIC,SEN                                                     1310.00 80           026064.00
                BZXF,SERS           -ERR IF XF OF X6  NOT 1            1304.23 40           026064.40
          BZXF,XCS13E                                                 25740.63 40          026065.00
          SX,$X5,XCSZ5                                                 21756.13 10          026065.40
          SIC,SEN                                                     1310.00 80           026066.00
                BZXF,SERS           -ERR IF XF OF X5  NOT 1            1304.23 40           026066.40
          BZXF,XCS13E                                                 25740.63 40          026067.00
          SX,$X4,XCSZ5                                                 21756.11 10          026067.40
          SIC,SEN                                                     1310.00 80           026070.00
                BZXF,SERS           -ERR IF XF OF X4  NOT 1            1304.23 40           026070.40
          BZXF,XCS13E                                                 25740.63 40          026071.00
          SX,$X3,XCSZ5                                                 21756.07 10          026071.40
          SIC,SEN                                                     1310.00 80           026072.00
                BZXF,SERS           -ERR IF XF OF X3  NOT 1            1304.23 40           026072.40
          BZXF,XCS13E                                                 25740.63 40          026073.00
          SX,$X2,XCSZ5                                                 21756.05 10          026073.40
          SIC,SEN                                                     1310.00 80           026074.00
                BZXF,SERS           -ERR IF XF OF X2  NOT 1            1304.23 40           026074.40
          BZXF,XCS13E                                                 25740.63 40          026075.00
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          SX,$X1,XCSZ5                                              21756.03 10        026075.40
          SIC,SEN                                                   1310.00 80         026076.00
                BZXF,SERS           -ERR IF XF OF X1  NOT 1         1304.23 40         026076.40
          SX,$X0,XCSZ5                                              21756.01 10        026077.00
          SIC,SEN                                                   1310.00 80         026077.40
                BZXF,SERS           -ERR IF XF OF X0  NOT 1         1304.23 40         026100.00
          B,XCS13E                                                  25740.50 00        026100.40
XCS13Y    SR,$X15,XCSZ5                                             21756.37 70        026101.00
                LC,$X15,XCSZ5                                       21756.36 50        026101.40
          KC,$X15,XCSZ23          -R OF X15 WITH 01010 PATTERN      21772.77 90        026102.00
          SIC,SEN                                                   1310.00 80         026102.40
                BZXE,SERS           -ERR IN R OF X15                1304.32 C0         026103.00
          BZXE,XCS13F                                               25742.72 C0        026103.40
          SR,$X14,XCSZ5                                             21756.35 70        026104.00
                LC,$X14,XCSZ5                                       21756.34 50        026104.40
          KC,$X14,XCSZ23          -R OF X14 WITH 01010 PATTERN      21772.75 90        026105.00
          SIC,SEN                                                   1310.00 80         026105.40
                BZXE,SERS           -ERR IN R OF X14                1304.32 C0         026106.00
          BZXE,XCS13F                                               25742.72 C0        026106.40
          SR,$X12,XCSZ5                                             21756.31 70        026107.00
                LC,$X12,XCSZ5                                       21756.30 50        026107.40
          KC,$X12,XCSZ23          -R OF X12 WITH 01010 PATTERN      21772.71 90        026110.00
          SIC,SEN                                                   1310.00 80         026110.40
                BZXE,SERS           -ERR IN R OF X12 OR X13         1304.32 C0         026111.00
          BZXE,XCS13F                                               25742.72 C0        026111.40
          SR,$X11,XCSZ5                                             21756.27 70        026112.00
                LC,$X11,XCSZ5                                       21756.26 50        026112.40
          KC,$X11,XCSZ23          -R OF X11 WITH 01010 PATTERN      21772.67 90        026113.00
          SIC,SEN                                                   1310.00 80         026113.40
                BZXE,SERS           -ERR IN R OF X11                1304.32 C0         026114.00
          BZXE,XCS13F                                               25742.72 C0        026114.40
          SR,$X10,XCSZ5                                             21756.25 70        026115.00
                LC,$X10,XCSZ5                                       21756.24 50        026115.40
          KC,$X10,XCSZ23          -R OF X10 WITH 01010 PATTERN      21772.65 90        026116.00
          SIC,SEN                                                   1310.00 80         026116.40
                BZXE,SERS           -ERR IN R OF X10                1304.32 C0         026117.00
          BZXE,XCS13F                                               25742.72 C0        026117.40
          SR,$X9,XCSZ5                                              21756.23 70        026120.00
                LC,$X9,XCSZ5                                        21756.22 50        026120.40
          KC,$X9,XCSZ23           -R OF X9  WITH 01010 PATTERN      21772.63 90        026121.00
          SIC,SEN                                                   1310.00 80         026121.40
                BZXE,SERS           -ERR IN R OF X9                 1304.32 C0         026122.00
          BZXE,XCS13F                                               25742.72 C0        026122.40
          SR,$X8,XCSZ5                                              21756.21 70        026123.00
                LC,$X8,XCSZ5                                        21756.20 50        026123.40
          KC,$X8,XCSZ23           -R OF X8  WITH 01010 PATTERN      21772.61 90        026124.00
          SIC,SEN                                                   1310.00 80         026124.40
                BZXE,SERS           -ERR IN R OF X8                 1304.32 C0         026125.00
          BZXE,XCS13F                                               25742.72 C0        026125.40
          SR,$X7,XCSZ5                                              21756.17 70        026126.00
                LC,$X7,XCSZ5                                        21756.16 50        026126.40
          KC,$X7,XCSZ23           -R OF X7  WITH 01010 PATTERN      21772.57 90        026127.00
          SIC,SEN                                                   1310.00 80         026127.40
                BZXE,SERS           -ERR IN R OF X7                 1304.32 C0         026130.00
          BZXE,XCS13F                                               25742.72 C0        026130.40
          SR,$X6,XCSZ5                                              21756.15 70        026131.00
                LC,$X6,XCSZ5                                        21756.14 50        026131.40
          KC,$X6,XCSZ23           -R OF X6  WITH 01010 PATTERN      21772.55 90        026132.00
          SIC,SEN                                                   1310.00 80         026132.40
                BZXE,SERS           -ERR IN R OF X6                 1304.32 C0         026133.00
          BZXE,XCS13F                                               25742.72 C0        026133.40
          SR,$X5,XCSZ5                                              21756.13 70        026134.00
                LC,$X5,XCSZ5                                        21756.12 50        026134.40
          KC,$X5,XCSZ23           -R OF X5  WITH 01010 PATTERN      21772.53 90        026135.00
          SIC,SEN                                                   1310.00 80         026135.40
                BZXE,SERS           -ERR IN R OF X5                 1304.32 C0         026136.00
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        BZXE,XCS13F                                          25742.72 CO            026136.40
        SR,$X4,XCSZ5                                         21756.11 70            026137.00
              LC,$X4,XCSZ5                                   21756.10 50            026137.40
        KC,$X4,XCSZ23           -R OF X4   WITH 01010 PATTERN  21772.51 90          026140.00
        SIC,SEN                                              1310.00 80             026140.40
              BZXE,SERS          -ERR IN R OF X4             1304.32 CO             026141.00
        BZXE,XCS13F                                          25742.72 CO            026141.40
        SR,$X3,XCSZ5                                         21756.07 70            026142.00
              LC,$X3,XCSZ5                                   21756.06 50            026142.40
        KC,$X3,XCSZ23           -R OF X3   WITH 01010 PATTERN  21772.47 90          026143.00
        SIC,SEN                                              1310.00 80             026143.40
              BZXE,SERS          -ERR IN R OF X3             1304.32 CO             026144.00
        BZXE,XCS13F                                          25742.72 CO            026144.40
        SR,$X2,XCSZ5                                         21756.05 70            026145.00
              LC,$X2,XCSZ5                                   21756.04 50            026145.40
        KC,$X2,XCSZ23           -R OF X2   WITH 01010 PATTERN  21772.45 90          026146.00
        SIC,SEN                                              1310.00 80             026146.40
              BZXE,SERS          -ERR IN R OF X2             1304.32 CO             026147.00
        BZXE,XCS13F                                          25742.72 CO            026147.40
        SR,$X1,XCSZ5                                         21756.03 70            026150.00
              LC,$X1,XCSZ5                                   21756.02 50            026150.40
        KC,$X1,XCSZ23           -R OF X1   WITH 01010 PATTERN  21772.43 90          026151.00
        SIC,SEN                                              1310.00 80             026151.40
              BZXE,SERS          -ERR IN R OF X1             1304.32 CO             026152.00
        BZXE,XCS13F                                          25742.72 CO            026152.40
        SR,$X0,XCSZ5                                         21756.01 70            026153.00
              LC,$X0,XCSZ5                                   21756.00 50            026153.40
        KC,$X0,XCSZ23           -R OF X0   WITH 01010 PATTERN  21772.41 90          026154.00
        SIC,SEN                                              1310.00 80             026154.40
              BZXE,SERS          -ERR IN R OF X0             1304.32 CO             026155.00
        B,XCS13F                                             25742.50 00            026155.40
XCS14   BD,$+1.0                                             26157.04 00            026156.00
              NOP,0            -TIME CLOCK HIGH ZERO TEST       0.30 00             026156.40
        LX,$X4,BIT45             -SET 1ST PASS INDICATOR     33406.10 10            026157.00
        LX,$X1,XCSZ1                                         21753.02 10            026157.40
                             -ALL ONES WORD INTO X1
        SV,$X1,1.0                                           1.03 30                026160.00
              SV,$X1,1.0       -STORE N TIMES INTO TOME REG  1.03 30                026160.40
        SV,$X1,1.0                                           1.03 30                026161.00
              SV,$X1,1.0                                     1.03 30                026161.40
        SV,$X1,1.0                                           1.03 30                026162.00
              SV,$X1,1.0                                     1.03 30                026162.40
        SV,$X1,1.0                                           1.03 30                026163.00
              SV,$X1,1.0                                     1.03 30                026163.40
        SV,$X1,1.0                                           1.03 30                026164.00
              SV,$X1,1.0                                     1.03 30                026164.40
        SV,$X1,1.0                                           1.03 30                026165.00
              SV,$X1,1.0                                     1.03 30                026165.40
        SV,$X1,1.0                                           1.03 30                026166.00
              SV,$X1,1.0                                     1.03 30                026166.40
        SV,$X1,1.0                                           1.03 30                026167.00
              SV,$X1,1.0                                     1.03 30                026167.40
        SV,$X1,1.0                                           1.03 30                026170.00
              SV,$X1,1.0                                     1.03 30                026170.40
        SV,$X1,1.0                                           1.03 30                026171.00
              SV,$X1,1.0                                     1.03 30                026171.40
        LX,$X2,XCSZ24          -ZERO WD WITH SYNCH BITS 49,59,61  21773.04 10       026172.00
        SV,$X2,1.0            -ZEROS ONCE INTO TIME REG       1.05 30               026172.40
        LV,$X3,1.0           -TIME REG INTO V OF X3           1.06 30               026173.00
        KV,$X3,XCSZ2          -WITH ZEROS                    21754.06 90            026173.40
        SIC,SEN                                              1310.00 80             026174.00
        BZXE,XCS14B           -ERR 0-18, 1ST READ            26205.72 CO            026174.40
                             -OCCASIONAL ERRORS ARE TO BE EXPECTED
                             -THE TIME CAN LEGITIMATELY CHANGE
                             -DURING THE COURSE OF THE TEST.
        LV,$X3,1.0           -TIME REG INTO V OF X3           1.06 30               026175.00
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	KV,$X3,XCSZ2	-WITH ZEROS	21754.06 90	026175.40
	SIC,SEN		1310.00 80	026176.00
	BZXE,XCS14B	-ERR 0-18, 2ND READ	26205.72 C0	026176.40
	LV,$X3,1.0	-IT INTO V OF X3	1.06 30	026177.00
	KV,$X3,XCSZ2	-WITH ZEROS	21754.06 90	026177.40
	SIC,SEN		1310.00 80	026200.00
	BZXE,XCS14B	-ERR 0-18, 3RD READ	26205.72 C0	026200.40
	LV,$X3,1.0	-IT INTO V OF X3	1.06 30	026201.00
	KV,$X3,XCSZ2	-WITH ZEROS	21754.06 90	026201.40
	SIC,SEN		1310.00 80	026202.00
	BZXE,XCS14B	-ERR 0-18, 4TH READ	26205.72 C0	026202.40
	LV,$X3,1.0	-IT INTO V OF X3	1.06 30	026203.00
	KV,$X3,XCSZ2	-WITH ZEROS	21754.06 90	026203.40
	SIC,SEN		1310.00 80	026204.00
	BZXE,XCS14B	-ERR 0-18, 5TH READ	26205.72 C0	026204.40
	B,$+2.32		26207.50 00	026205.00
XCS14B	KC,$X4,BIT44	-BRANCH IF SECOND PASS	33405.11 90	026205.40
	BXE,SERS		1304.32 C2	026206.00
	LX,$X4,BIT44	-MODIFY INDEX WORD	33405.10 10	026206.40
	B,XCS14+1.32	-1ST PASS TRY AGAIN	26157.50 00	026207.00
	NOP,0		0.30 00	026207.40
	NOP,0		0.30 00	026210.00
	B,$+1.0		26211.50 00	026210.40
	B,XCS14	-FOR LOOP	26156.10 00	026211.00
	SIC,SEN0+.32		1311.40 80	026211.40
	B,SSW		1301.10 00	026212.00
	BD,XCS14A		26213.04 00	026212.40
XCS14A	LX,$X2,XCSZ26	-SYNCH ONES WD, START	21775.04 10	026213.00
	NOP,0	-LOW ONES TEST	0.30 00	026213.40
	LX,$X4,BIT45	-SET 1ST PASS INDICATOR	33406.10 10	026214.00
	LX,$X1,XCSZ25	-NON SYNCH ZERO WD	21774.02 10	026214.40
	SV,$X1,1.0		1.03 30	026215.00
	SV,$X1,1.0	-STORE N TIMES INTO TIME REG	1.03 30	026215.40
	SV,$X1,1.0		1.03 30	026216.00
	SV,$X1,1.0		1.03 30	026216.40
	SV,$X1,1.0		1.03 30	026217.00
	SV,$X1,1.0		1.03 30	026217.40
	SV,$X1,1.0		1.03 30	026220.00
	SV,$X1,1.0		1.03 30	026220.40
	SV,$X1,1.0		1.03 30	026221.00
	SV,$X1,1.0		1.03 30	026221.40
	SV,$X1,1.0		1.03 30	026222.00
	SV,$X1,1.0		1.03 30	026222.40
	SV,$X1,1.0		1.03 30	026223.00
	SV,$X1,1.0		1.03 30	026223.40
	SV,$X1,1.0		1.03 30	026224.00
	SV,$X1,1.0		1.03 30	026224.40
	SV,$X1,1.0		1.03 30	026225.00
	SV,$X1,1.0		1.03 30	026225.40
	SV,$X1,1.0		1.03 30	026226.00
	SV,$X1,1.0		1.03 30	026226.40
	SV,$X2,1.0		1.05 30	026227.00
	LV,$X3,1.0	-IT INTO V OF X3	1.06 30	026227.40
	KV,$X3,XCSZ27	-WITH SP SYNCH ONES FLD	21776.06 90	026230.00
	SIC,SEN		1310.00 80	026230.40
	BZXE,XCS14C	-ERR 0-18, 1ST READ	26242.32 C0	026231.00
	LV,$X3,1.0	-IT INTO V OF X3	1.06 30	026231.40
	KV,$X3,XCSZ27	-WITH SP SYNCH ONES FLD	21776.06 90	026232.00
	SIC,SEN		1310.00 80	026232.40
	BZXE,XCS14C	-ERR 0-18, 2ND READ	26242.32 C0	026233.00
	LV,$X3,1.0	-IT INOT V OF X3	1.06 30	026233.40
	KV,$X3,XCSZ27	-WITH SP SYNCH ONES FLD	21776.06 90	026234.00
	SIC,SEN		1310.00 80	026234.40
	BZXE,XCS14C	-ERR 0-18, 3RD READ	26242.32 C0	026235.00
	LV,$X3,1.0	-IT INOT V OF X3	1.06 30	026235.40
	KV,$X3,XCSZ27	-WITH SP SYNCH ONES FLD	21776.06 90	026236.00

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                SIC,SEN                                          1310.00 80        026236.40
                BZXE,XCS14C         -ERR 0-18, 4TH READ          26242.32 C0       026237.00
                LV,$X3,1.0          -IT INOT V OF X3             1.06 30           026237.40
                KV,$X3,XCSZ27       -WITH SP SYNCH ONES FLD      21776.06 90       026240.00
                SIC,SEN                                          1310.00 80        026240.40
                BZXE,XCS14C         -ERR 0-18, 5TH READ          26242.32 C0       026241.00
                B,$+2.32                                         26244.10 00       026241.40
XCS14C          KC,$X4,BIT44                                     33405.11 90       026242.00
                BXE,SERS            -BRANCH IF SECOND PASS       1304.32 C2        026242.40
                LX,$X4,BIT44        -MODIFY INDEX WORD           33405.10 10       026243.00
                B,XCS14A+1.32       -1ST PASS TRY AGAIN          26214.50 00       026243.40
                B,$+1.0                                          26245.10 00       026244.00
                        B,XCS14A                                 26213.10 00       026244.40
                SIC,SEN0+.32                                     1311.40 80        026245.00
                        B,SSW       -FOR LOOP                    1301.10 00        026245.40
                B,XCS15                                          26246.50 00       026246.00

                                    -OCCASIONAL ERRORS ARE TO BE EZPECTED
                                    -THE TIME CAN LEGITIMATELY CHANGE
                                    -DURING THE COURSE OF THE TEST

XCS15           LX,$X0,XCSZ1                                     21753.00 10       026246.40
                        LX,$X1,XCSZ1 -INITIALIZE BY             21753.02 10       026247.00
                LX,$X2,XCSZ1                                     21753.04 10       026247.40
                        LX,$X3,XCSZ1 -SETTING ALL IX           21753.06 10       026250.00
                LX,$X4,XCSZ1                                     21753.10 10       026250.40
                        LX,$X5,XCSZ1 -REGS TO ONES             21753.12 10       026251.00
                LX,$X6,XCSZ1                                     21753.14 10       026251.40
                        LX,$X7,XCSZ1 -PREPARE FOR              21753.16 10       026252.00
                LX,$X8,XCSZ1                                     21753.20 10       026252.40
                        LX,$X9,XCSZ1 -SENSE AMPLIFIER          21753.22 10       026253.00
                LX,$X10,XCSZ1                                    21753.24 10       026253.40
                        LX,$X11,XCSZ1 -CROSSTALK TEST          21753.26 10       026254.00
                LX,$X12,XCSZ1                                    21753.30 10       026254.40
                        LX,$X13,XCSZ1 -UTILIZING               21753.32 10       026255.00
                LX,$X14,XCSZ1                                    21753.34 10       026255.40
                        LX,$X15,XCSZ1 -SPECIAL BIT             21753.36 10       026256.00
                NOP,0                                            0.30 00           026256.40
                        NOP,0       -PATTERNS                    0.30 00           026257.00
XCS15A          LX,$X1,XCSZA1       -XTK-A IN TX 1               22012.02 10       026257.40
                SX,$X1,XCSZ5        -READ OUT X1                 21756.03 10       026260.00
                LX,$X2,XCSZ5        -BRING READ OUT BACK FOR TESTING  21756.04 10  026260.40
                KV,$X2,XCSZA1           -COMP. WITH ORIGINAL 0-24 22012.04 90      026261.00
                SIC,SEN                                          1310.00 80        026261.40
                        BZXE,SERS   -ERR IF PATTERN ALTERED      1304.32 C0        026262.00
                KC,$X2,XCSZA2           -WITH COUNT PATTERN 28-45 22013.05 90      026262.40
                SIC,SEN                                          1310.00 80        026263.00
                        BZXE,SERS   -ERR IF PATTERN ALTERED      1304.32 C0        026263.40
                SR,$X2,XCSZ28           -STORE REFILL WORK AREA   21776.45 70      026264.00
                SIC,SEN                                          1310.00 80        026264.40
                        BXF,SERS    -ERR IF XF IS ONE 25         1304.23 42        026265.00
                LC,$X2,XCSZ28       -REFILL TO COUNT FLD         21776.44 50       026265.40
                KC,$X2,XCSZA3       -WITH REFILL PATTERN 46-63   22013.45 90       026266.00
                SIC,SEN                                          1310.00 80        026266.40
                        BZXE,SERS   -ERR IF PATTERN ALTERED      1304.32 C0        026267.00
                NOP,                                             0.30 00           026267.40
                        NOP,0                                    0.30 00           026270.00
                LX,$X1,XCSZ1                                     21753.02 10       026270.40
                        LX,$X2,XCSZ1 -RESTORE IX REGS          21753.04 10       026271.00
XCS15B          LX,$X3,XCSZB1       -XTK-B IN X3                 22014.06 10       026271.40
                SX,$X3,XCSZ5                                     21756.07 10       026272.00
                        LX,$X4,XCSZ5 -RD OUT, BRING BACK FOR TESTING 21756.10 10   026272.40
                KV,$X4,XCSZB1           -COMP WITH ORIGINAL 0-24 22014.10 90       026273.00
                SIC,SEN                                          1310.00 80        026273.40
                        BZXE,SERS   -ERR IF PATTERN ALTERED      1304.32 C0        026274.00
                KC,$X4,XCSZB2       -WITH COUNT PATTERN 28-45    22015.11 90       026274.40
                SIC,SEN                                          1310.00 80        026275.00
                        BZXE,SERS   -ERR IF PATTERN ALTERED      1304.32 C0        026275.40
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        SR,$X4,XCSZ28          -REFILL TO WORK AREA           21776.51 70          026276.00
        SIC,SEN                                               1310.00 80           026276.40
                BZXF,SERS      -ERR IF XF IS 0 25             1304.23 40           026277.00
        LC,$X4,XCSZ28                                         21776.50 50          026277.40
                KC,$X4,XCSZB3 -WITH REFILL PATTERN 46-63      22015.51 90          026300.00
        SIC,SEN                                               1310.00 80           026300.40
                BZXE,SERS      -ERR IF PATTERN ALTERED        1304.32 CO           026301.00
        NOP,0                                                 0.30 00              026301.40
            NOP,0                                             0.30 00              026302.00
        LX,$X3,XCSZ1                                          21753.06 10          026302.40
                LX,$X4,XCSZ1 -RESTORE IX REGS                 21753.10 10          026303.00
XCS15C  LX,$X5,XCSZC1          -XTK-C IN X5                   22016.12 10          026303.40
        SX,$X5,XCSZ5                                          21756.13 10          026304.00
                LX,$X6,XCSZ5 -RD OUT, BRING BACK FOR TESTING  21756.14 10          026304.40
        KV,$X6,XCSZC1          -COMP WITH ORIGINAL 0-24       22016.14 90          026305.00
        SIC,SEN                                               1310.00 80           026305.40
                BZXE,SERS      -ERR IF PATTERN ALTERED        1304.32 CO           026306.00
        KC,$X6,XCSZC2          -WITH COUNT PATTERN 28-45      22017.15 90          026306.40
        SIC,SEN                                               1310.00 80           026307.00
                BZXE,SERS      -ERR IF PATTERN ALTERED        1304.32 CO           026307.40
        SR,$X6,XCSZ28          -REFILL TO WORK AREA           21776.55 70          026310.00
        SIC,SEN                                               1310.00 80           026310.40
                BZXF,SERS      -ERR IF XF IS 0 25             1304.23 40           026311.00
        LC,$X6,XCSZ28                                         21776.54 50          026311.40
                KC,$X6,XCSZC3 -WITH REFILL PATTERN 46-63      22017.55 90          026312.00
        SIC,SEN                                               1310.00 80           026312.40
                BZXE,SERS      -ERR IF PATTERN ALTERED        1304.32 CO           026313.00
        NOP,0                                                 0.30 00              026313.40
            NOP,0                                             0.30 00              026314.00
        LX,$X5,XCSZ1                                          21753.12 10          026314.40
                LX,$X6,XCSZ1 -RESTORE IX REGS                 21753.14 10          026315.00
XCS15D  LX,$X7,XCSZD1          -XTK-D IN X7                   22020.16 10          026315.40
        SX,$X7,XCSZ5                                          21756.17 10          026316.00
                LX,$X8,XCSZ5 -RD OUT, BRING BACK FOR TESTING  21756.20 10          026316.40
        KV,$X8,XCSZD1          -COMP WITH ORIGINAL 0-24       22020.20 90          026317.00
        SIC,SEN                                               1310.00 80           026317.40
                BZXE,SERS      -ERR IF PATTERN ALTERED        1304.32 CO           026320.00
        KC,$X8,XCSZD2          -WITH COUNT PATTERN 28-45      22021.21 90          026320.40
        SIC,SEN                                               1310.00 80           026321.00
                BZXE,SERS      -ERR IF PATTERN ALTERED        1304.32 CO           026321.40
        SR,$X8,XCSZ28          -REFILL TO WORK AREA           21776.61 70          026322.00
        SIC,SEN                                               1310.00 80           026322.40
                BZXF,SERS      -ERR IF XF IS 0 25             1304.23 40           026323.00
        LC,$X8,XCSZ28                                         21776.60 50          026323.40
                KC,$X8,XCSZD3 -WITH REFILL PATTERN 46-63      22021.61 90          026324.00
        SIC,SEN                                               1310.00 80           026324.40
                BZXE,SERS      -ERR IF PATTERN ALTERED        1304.32 CO           026325.00
        NOP,0                                                 0.30 00              026325.40
            NOP,0                                             0.30 00              026326.00
        LX,$X7,XCSZ1                                          21753.16 10          026326.40
                LX,$X8,XCSZ1 -RESTORE IX REGS                 21753.20 10          026327.00
XCS15E  LX,$X9,XCSZE1          -XTK-E IN X9                   22022.22 10          026327.40
        SX,$X9,XCSZ5                                          21756.23 10          026330.00
                LX,$X10,XCSZ5    -RD OUT BRING BACK FOR TESTION 21756.24 10        026330.40
        KV,$X10,XCSZE1         -COMP WITH ORIGINAL 0-24       22022.24 90          026331.00
        SIC,SEN                                               1310.00 80           026331.40
                BZXE,SERS      -ERR IF PATTERN ALTERED        1304.32 CO           026332.00
        KC,$X10,XCSZE2         -WITH COUNT PATTERN 28-45      22023.25 90          026332.40
        SIC,SEN                                               1310.00 80           026333.00
                BZXE,SERS      -ERR IF PATTERN ALTERED        1304.32 CO           026333.40
        SR,$X10,XCSZ28         -REFILL TO WORK AREA           21776.65 70          026334.00
        SIC,SEN                                               1310.00 80           026334.40
                BZXF,SERS      -ERR IF XF IS 0 25             1304.23 40           026335.00
        LC,$X10,XCSZ28                                        21776.64 50          026335.40
                KC,$X10,XCSZE3 -WITH REFILL PATTERN 46-63     22023.65 90          026336.00
        SIC,SEN                                               1310.00 80           026336.40
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                BZXE,SERS        -ERR IF PATTERN ALTERED                   1304.32 CO       026337.00
        NOP,0                                                             0.30 00          026337.40
            NOP,0                                                         0.30 00          026340.00
        LX,$X9,XCSZ1                                                      21753.22 10      026340.40
            LX,$X10,XCSZ1 -RESTORE IX REGS                               21753.24 10      026341.00
XCS15F  LX,$X11,XCSZF1          -XTK-F IN X11                            22024.26 10      026341.40
        SX,$X11,XCSZ5                                                     21756.27 10      026342.00
            LX,$X12,XCSZ5 -RD OUT BRING BACK FOR TESTING                 21756.30 10      026342.40
        KV,$X12,XCSZF1          -COMP WITH ORIGINAL                      22024.30 90      026343.00
        SIC,SEN                                                           1310.00 80       026343.40
            BZXE,SERS          -ERR IF PATTERN ALTERED                   1304.32 CO       026344.00
        KC,$X12,XCSZF2         -WITH COUNT PATTERN 28-45                 22025.31 90      026344.40
        SIC,SEN                                                           1310.00 80       026345.00
            BZXE,SERS          -ERR IF PATTERN ALTERED                   1304.32 CO       026345.40
        SR,$X12,XCSZ28         -REFILL TO WORK AREA                      21776.71 70      026346.00
        SIC,SEN                                                           1310.00 80       026346.40
            BXF,SERS           -ERR IF XF IS 1 25                        1304.23 42       026347.00
        LC,$X12,XCSZ28                                                    21776.70 50      026347.40
            KC,$X12,XCSZF3 -WITH REFILL PATTERN 46-63                    22025.71 90      026350.00
        SIC,SEN                                                           1310.00 80       026350.40
            BZXE,SERS          -ERR IF PATTERN ALTERED                   1304.32 CO       026351.00
        NOP,0                                                             0.30 00          026351.40
            NOP,0                                                         0.30 00          026352.00
        LX,$X11,XCSZ1                                                     21753.26 10      026352.40
            LX,$X12,XCSZ1 -RESTORE IX REGS                               21753.30 10      026353.00
        B,$+1.0                                                           26354.50 00      026353.40
            B,XCS15            -TO LOOP                                   26246.50 00      026354.00
        SIC,SEN0+.32                                                      1311.40 80       026354.40
            B,SSW              -CROSS TALK TESTS                          1301.10 00       026355.00
        B,$+1.0                                                           26356.50 00      026355.40
            B,XCS1             -TO LOOP                                   20171.50 00      026356.00
        SIC,SEN0+.32                                                      1311.40 80       026356.40
            B,SSW              -ALL XCS TESTS                             1301.10 00       026357.00
        -TEST,ONES TRAVEL LEFT TOWARDS ZERO IMPEDANCE
XCS16   LX,$X0,XCSZ1                                                      21753.00 10      026357.40
            LX,$X1,XCSZ1 -INITIALIZE BY                                  21753.02 10      026360.00
        LX,$X2,XCSZ1                                                      21753.04 10      026360.40
            LX,$X3,XCSZ1 -SETTING ALL IX                                 21753.06 10      026361.00
        LX,$X4,XCSZ1                                                      21753.10 10      026361.40
            LX,$X5,XCSZ1 -REGS TO ONES                                   21753.12 10      026362.00
        LX,$X6,XCSZ1                                                      21753.14 10      026362.40
            LX,$X7,XCSZ1 -PREPARE FOR                                    21753.16 10      026363.00
        LX,$X8,XCSZ1                                                      21753.20 10      026363.40
            LX,$X9,XCSZ1 -ONES TRAVEL                                    21753.22 10      026364.00
        LX,$X10,XCSZ1          -LEFT TOWARD                              21753.24 10      026364.40
        LX,$X11,XCSZ1                                                     21753.26 10      026365.00
        LX,$X12,XCSZ1                                                     21753.30 10      026365.40
            LX,$X13,XCSZ1 -ZERO IMPEDANCE                                21753.32 10      026366.00
        LX,$X14,XCSZ1                                                     21753.34 10      026366.40
            LX,$X15,XCSZ1 -TEST                                          21753.36 10      026367.00
XCS16A  LX,$X0,XCSZ2           -LOAD WITH ZEROS ONE TIME                 21754.00 10      026367.40
        KV,$X0,XCSZ2           -TEST BITS 0-24                           21754.00 90      026370.00
        SIC,SEN                                                           1310.00 80       026370.40
            BZXEZ,SERS   -ERROR IF BIT PICKED UP                         1304.32 C4       026371.00
        KC,$X0,XCSZ2          -TEST BITS 28-45                           21754.01 90      026371.40
        SIC,SEN                                                           1310.00 80       026372.00
            BZXE,SERS          -COUNT FLDS MUST COMPARE                  1304.32 CO       026372.40
        SR,$X0,XCSZ5          -REFILL TO WORK AREA                       21756.01 70      026373.00
        SIC,SEN                                                           1310.00 80       026373.40
            BXF,SERS           -ERR IF XF NOT 0 AS IT SHOULD BE %25¤     1304.23 42       026374.00
        LC,$X0,XCSZ5          -REFILL INTO COUNT FIELD                   21756.00 50      026374.40
        KC,$X0,XCSZ2          -TEST REFILL BITS 46-63                    21754.01 90      026375.00
        SIC,SEN                                                           1310.00 80       026375.40
            BZXE,SERS          -ERR IF NOT COMPARE EQUAL                 1304.32 CO       026376.00
        NOP,0                                                             0.30 00          026376.40
            NOP,0                                                         0.30 00          026377.00
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LX,$X0,XCSZ29          -EIGHT RIGHT HAND ONES              21777.00 10        026377.40
KV,$X0,XCSZ2           -TEST BITS 0-24                     21754.00 90        026400.00
SIC,SEN                                                    1310.00 80         026400.40
        BZXEZ,SERS     -ERROR IF BIT PICKED UP             1304.32 C4         026401.00
KC,$X0,XCSZ2           -TEST BITS 28-45                    21754.01 90        026401.40
SIC,SEN                                                    1310.00 80         026402.00
        BZXE,SERS      -COUNT FIELD MUST BE ALL ZEROS      1304.32 C0         026402.40
SR,$X0,XCSZ5           -REFILL TO WORK AREA                21756.01 70        026403.00
SIC,SEN                                                    1310.00 80         026403.40
        BXF,SERS       -ERR IF XF NOT ZERO                 1304.23 42         026404.00
LC,$X0,XCSZ5           -REFILL INTO COUNT FIELD            21756.00 50        026404.40
KC,$X0,XCSZ36          -TEST REFILL FOR 8 ONES 46-63       22006.01 90        026405.00
SIC,SEN                                                    1310.00 80         026405.40
        BZXE,SERS      -ERR IF NOT COMPARE EQUAL           1304.32 C0         026406.00
NOP,0                                                      0.30 00            026406.40
    NOP,0                                                  0.30 00            026407.00
LX,$X0,XCSZ30          -16 RIGHT HAND ONES                 22000.00 10        026407.40
KV,$X0,XCSZ2           -TEST BITS 0-24                     21754.00 90        026410.00
SIC,SEN                                                    1310.00 80         026410.40
        BZXEZ,SERS     -ERROR IF BIT PICKED UP             1304.32 C4         026411.00
KC,$X0,XCSZ2           -TEST BITS 28-45                    21754.01 90        026411.40
SIC,SEN                                                    1310.00 80         026412.00
        BZXE,SERS      -COUNT FIELD MUST BE ALL ZEROS      1304.32 C0         026412.40
SR,$X0,XCSZ5           -REFILL TO WORK AREA                21756.01 70        026413.00
SIC,SEN                                                    1310.00 80         026413.40
        BXF,SERS       -ERR IF AF NOT ZERO                 1304.23 42         026414.00
LC,$X0,XCSZ5           -REFILL INTO COUNT FIELD            21756.00 50        026414.40
KC,$X0,XCSZ37          -TEST REFILL FOR 16 ONES 46-63      22006.41 90        026415.00
SIC,SEN                                                    1310.00 80         026415.40
        BZXE,SERS      -ERR IF NOT COMPARE EQUAL           1304.32 C0         026416.00
NOP,0                                                      0.30 00            026416.40
    NOP,0                                                  0.30 00            026417.00
LX,$X0,XCSZ31          -24 RIGHT HAND ONES                 22001.00 10        026417.40
KV,$X0,XCSZ2           -TEST BITS 0-24                     21754.00 90        026420.00
SIC,SEN                                                    1310.00 80         026420.40
        BZXEZ,SERS     -ERROR IF BIT PICKED UP             1304.32 C4         026421.00
KC,$X0,XCSZ39          -TEST 28-45 FOR 6 ONES              22007.41 90        026421.40
SIC,SEN                                                    1310.00 80         026422.00
        BZXE,SERS      -COUNT FIELD MUST COMPARE           1304.32 C0         026422.40
SR,$X0,XCSZ5           -REFILL TO WORK AREA                21756.01 70        026423.00
SIC,SEN                                                    1310.00 80         026423.40
        BXF,SERS       -ERR IF XF NOT ZERO                 1304.23 42         026424.00
LC,$X0,XCSZ5           -REFILL INTO COUNT FIELD            21756.00 50        026424.40
KC,$X0,XCSZ38          -TEST REFILL FOR 18 ONES 46-63      22007.01 90        026425.00
SIC,SEN                                                    1310.00 80         026425.40
        BZXE,SERS      -ERR IF NOT COMPARE EQUAL           1304.32 C0         026426.00
NOP,0                                                      0.30 00            026426.40
    NOP,0                                                  0.30 00            026427.00
LX,$X0,XCSZ32          -32 RIGHT HAND ONES                 22002.00 10        026427.40
KV,$X0,XCSZ2           -TEST BITS 0-24                     21754.00 90        026430.00
SIC,SEN                                                    1310.00 80         026430.40
        BZXEZ,SERS     -ERROR IF BIT PICKED UP             1304.32 C4         026431.00
KC,$X0,XCSZ40          -TEST 28-45 FOR 14 ONES             22010.01 90        026431.40
SIC,SEN                                                    1310.00 80         026432.00
        BZXE,SERS      -COUNT FIELD MUST COMPARE           1304.32 C0         026432.40
SR,$X0,XCSZ5           -REFILL TO WORK AREA                21756.01 70        026433.00
SIC,SEN                                                    1310.00 80         026433.40
        BXF,SERS       -ERR IF XF NOT ZERO                 1304.23 42         026434.00
LC,$X0,XCSZ5           -REFILL INTO COUNT FIELD            21756.00 50        026434.40
KC,$X0,XCSZ38          -TEST REFILL FOR 18 ONES 46-63      22007.01 90        026435.00
SIC,SEN                                                    1310.00 80         026435.40
        BZXE,SERS      -ERR IF NOT COMPARE EQUAL           1304.32 C0         026436.00
NOP,0                                                      0.30 00            026436.40
    NOP,0                                                  0.30 00            026437.00
LX,$X0,XCSZ33          -40 RIGHT HAND ONES                 22003.00 10        026437.40
KV,$X0,XCSZ41          -TEST BITS 0-24                     22010.40 90        026440.00
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          SIC,SEN                                                  1310.00 80              026440.40
                  BZXEZ,SERS    -ERR IF NO COMP EQUAL              1304.32 C4              026441.00
          KC,$X0,XCSZ38         -TEST 28-45 FOR 18 ONES            22007.01 90             026441.40
          SIC,SEN                                                  1310.00 80              026442.00
                  BZXE,SERS     -COUNT FIELD MUST BE ALL ONES      1304.32 C0              026442.40
          SR,$X0,XCSZ5          -REFILL TO WORK AREA               21756.01 70             026443.00
          SIC,SEN                                                  1310.00 80              026443.40
                  BZXF,SERS     -ERR IF XF NOT ONE                 1304.23 40              026444.00
          LC,$X0,XCSZ5          -REFILL INTO COUNT FIELD           21756.00 50             026444.40
          KC,$X0,XCSZ38         -TEST REFILL FOR 18 ONES 46-63     22007.01 90             026445.00
          SIC,SEN                                                  1310.00 80              026445.40
                  BZXE,SERS     -ERR IF NOT COMPARE EQUAL          1304.32 C0              026446.00
          NOP,0                                                    0.30 00                 026446.40
                  NOP,0                                            0.30 00                 026447.00
          LX,$X0,XCSZ34         -48 RIGHT HAND ONES                22004.00 10             026447.40
          KV,$X0,XCSZ42         -TEST BITS 0-24                    22011.00 90             026450.00
          SIC,SEN                                                  1310.00 80              026450.40
                  BZXEZ,SERS    -ERR IF NO COMP EQUAL              1304.32 C4              026451.00
          KC,$X0,XCSZ38         -TEST 28-45 FOR 18 ONES            22007.01 90             026451.40
          SIC,SEN                                                  1310.00 80              026452.00
                  BZXE,SERS     -COUNT FIELD MUST BE ALL ONES      1304.32 C0              026452.40
          SR,$X0,XCSZ5          -REFILL TO WORK AREA               21756.01 70             026453.00
          SIC,SEN                                                  1310.00 80              026453.40
                  BZXF,SERS     -ERR IF XF NOT ONE                 1304.23 40              026454.00
          LC,$X0,XCSZ5          -REFILL INTO COUNT FIELD           21756.00 50             026454.40
          KC,$X0,XCSZ38         -TEST REFILL FOR 18 ONES 46-63     22007.01 90             026455.00
          SIC,SEN                                                  1310.00 80              026455.40
                  BZXE,SERS     -ERR IF NOT COMP EQUAL             1304.32 C0              026456.00
          NOP,0                                                    0.30 00                 026456.40
                  NOP,0                                            0.30 00                 026457.00
          LX,$X0,XCSZ35         -56 RIGHT HAND ONES                22005.00 10             026457.40
          KV,$X0,XCSZ43         -TEST BITS 0-24                    22011.40 90             026460.00
          SIC,SEN                                                  1310.00 80              026460.40
                  BZXEZ,SERS    -ERR IF NO COMP EQUAL              1304.32 C4              026461.00
          KC,$X0,XCSZ38         -TEST 28-45 FOR 18 ONES            22007.01 90             026461.40
          SIC,SEN                                                  1310.00 80              026462.00
                  BZXE,SERS     -COUNT FILD MUST BE ALL ONES       1304.32 C0              026462.40
          SR,$X0,XCSZ5          -REFILL TO WORK AREA               21756.01 70             026463.00
          SIC,SEN                                                  1310.00 80              026463.40
                  BZXF,SERS     -ERR IF XF NOT ONE                 1304.23 40              026464.00
          LC,$X0,XCSZ5          -REFILL INTO COUNT FIELD           21756.00 50             026464.40
          KC,$X0,XCSZ38         -TEST REFILL FOR 18 ONES           22007.01 90             026465.00
          SIC,SEN                                                  1310.00 80              026465.40
                  BZXE,SERS     -ERR IF NOT COMP EQUAL             1304.32 C0              026466.00
          NOP,0                                                    0.30 00                 026466.40
                  NOP,0                                            0.30 00                 026467.00
          LX,$X0,XCSZ1                                             21753.00 10             026467.40
          B,$+1,0               -RESTORE X0 TO ALL ONES            26471.10 00             026470.00
          B,XCS16A              -TO LOOP IN X0 MARCHING ONES TEST  26367.50 00             026470.40
          SIC,SEN0+,32                                             1311.40 80              026471.00
                  B,SSW         -TO TEST SENSE SWITCHES            1301.10 00              026471.40
XCS16D    LX,$X3,XCSZ2          -LOAD WITH ZEROS ONE TIME          21754.06 10             026472.00
          KV,$X3,XCSZ2          -TEST BITS 0-24                    21754.06 90             026472.40
          SIC,SEN                                                  1310.00 80              026473.00
                  BZXEZ,SERS    -ERROR IF BIT PICKED UP            1304.32 C4              026473.40
          KC,$X3,XCSZ2          -TEST BITS 28-45                   21754.07 90             026474.00
          SIC,SEN                                                  1310.00 80              026474.40
                  BZXE,SERS     -COUNT FIELDS MUST COMPARE         1304.32 C0              026475.00
          SR,$X3,XCSZ5          -REFILL TO WORK AREA               21756.07 70             026475.40
          SIC,SEN                                                  1310.00 80              026476.00
                  BXF,SERS      -ERR IF XF IS ONE                  1304.23 42              026476.40
          LC,$X3,XCSZ5          -REFILL INTO COUNT FIELD           21756.06 50             026477.00
          KC,$X3,XCSZ2          -TEST REFILL BITS 46-63            21754.07 90             026477.40
          SIC,SEN                                                  1310.00 80              026500.00
                  BZXE,SERS     -ERR IF NOT COMPARE EQUAL          1304.32 C0              026500.40
          NOP,0                                                    0.30 00                 026501.00
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                NOP,0                                                        0.30 00          026501.40
        LX,$X3,XCSZ29        -EIGHT RIGHT HAND ONES                  21777.06 10          026502.00
        KV,$X3,XCSZ2         -TEST BITS 0-24                         21754.06 90          026502.40
        SIC,SEN                                                      1310.00 80           026503.00
                BZXEZ,SERS  -ERROR IF BIT PICKED UP                  1304.32 C4           026503.40
        KC,$X3,XCSZ2         -TEST BITS 28-45                        21754.07 90          026504.00
        SIC,SEN                                                      1310.00 80           026504.40
                BZXE,SERS   -COUNT FIELD MUST BE ALL ZEROS           1304.32 C0           026505.00
        SR,$X3,XCSZ5        -REFILL TO WORK AREA                     21756.07 70          026505.40
        SIC,SEN                                                      1310.00 80           026506.00
                BXF,SERS    -ERR IF XF NOT ZERO                      1304.23 42           026506.40
        LC,$X3,XCSZ5        -REFILL INTO COUNT FIELD                 21756.06 50          026507.00
        KC,$X3,XCSZ36       -TEST REFILL FOR 8 ONES 46-63            22006.07 90          026507.40
        SIC,SEN                                                      1310.00 80           026510.00
                BZXE,SERS   -ERR IF NOT COMPARE EQUAL                1304.32 C0           026510.40
NOP,0                                                                0.30 00              026511.00
                NOP,0                                                0.30 00              026511.40
        LX,$X3,XCSZ30       -16 RIGHT HAND ONES                      22000.06 10          026512.00
        KV,$X3,XCSZ2        -TEST BITS 0-24                          21754.06 90          026512.40
        SIC,SEN                                                      1310.00 80           026513.00
                BZXEZ,SERS  -ERROR IF BIT PICKED UP                  1304.32 C4           026513.40
        KC,$X3,XCSZ2        -TEST BITS 28-45                         21754.07 90          026514.00
        SIC,SEN                                                      1310.00 80           026514.40
                BZXE,SERS   -COUNT FIELD MUST BE ALL ZEROS           1304.32 C0           026515.00
        SR,$X3,XCSZ5        -REFILL TO WORK AREA                     21756.07 70          026515.40
        SIC,SEN                                                      1310.00 80           026516.00
                BXF,SERS    -ERR IF XF IS ONE                        1304.23 42           026516.40
        LC,$X3,XCSZ5        -REFILL INTO COUNT FIELD                 21756.06 50          026517.00
        KC,$X3,XCSZ37       -TEST REFILL FOR 16 ONES 46-63           22006.47 90          026517.40
        SIC,SEN                                                      1310.00 80           026520.00
                BZXE,SERS   -ERR IF NOT COMPARE EQUAL                1304.32 C0           026520.40
NOP,0                                                                0.30 00              026521.00
                NOP,0                                                0.30 00              026521.40
        LX,$X3,XCSZ31       -24 RIGHT HAND ONES                      22001.06 10          026522.00
        KV,$X3,XCSZ2        -TEST BITS 0-24                          21754.06 90          026522.40
        SIC,SEN                                                      1310.00 80           026523.00
                BZXEZ,SERS  -ERROR IF BIT PICKED UP                  1304.32 C4           026523.40
        KC,$X3,XCSZ39       -TEST 28-45 FOR 6 ONES                   22007.47 90          026524.00
        SIC,SEN                                                      1310.00 80           026524.40
                BZXE,SERS   -COUNT FIELD MUST COMPARE                1304.32 C0           026525.00
        SR,$X3,XCSZ5        -REFILL TO WORK AREA                     21756.07 70          026525.40
        SIC,SEN                                                      1310.00 80           026526.00
                BXF,SERS    -ERR IF XF IS ONE                        1304.23 42           026526.40
        LC,$X3,XCSZ5        -REFILL INTO COUNT FIELD                 21756.06 50          026527.00
        KC,$X3,XCSZ38       -TEST REFILL FOR 18 ONES 46-63           22007.07 90          026527.40
        SIC,SEN                                                      1310.00 80           026530.00
                BZXE,SERS   -ERR IF NOT COMPARE EQUAL                1304.32 C0           026530.40
NOP,0                                                                0.30 00              026531.00
                NOP,0                                                0.30 00              026531.40
        LX,$X3,XCSZ32       -32 RIGHT HAND ONES                      22002.06 10          026532.00
        KV,$X3,XCSZ2        -TEST BITS 0-24                          21754.06 90          026532.40
        SIC,SEN                                                      1310.00 80           026533.00
                BZXEZ,SERS  -ERROR IF BIT PICKED UP                  1304.32 C4           026533.40
        KC,$X3,XCSZ40       -TEST 28-45 FOR 14 ONES                  22010.07 90          026534.00
        SIC,SEN                                                      1310.00 80           026534.40
                BZXE,SERS   -COUNT FIELD MUST COMPARE                1304.32 C0           026535.00
        SR,$X3,XCSZ5        -REFILL TO WORK AREA                     21756.07 70          026535.40
        SIC,SEN                                                      1310.00 80           026536.00
                BXF,SERS    -ERR IF XF IS ONE                        1304.23 42           026536.40
        LC,$X3,XCSZ5        -REFILL INTO COUNT FIELD                 21756.06 50          026537.00
        KC,$X3,XCSZ38       -TEST REFILL FOR 18 ONES 46-63           22007.07 90          026537.40
        SIC,SEN                                                      1310.00 80           026540.00
                BZXE,SERS   -ERR IF NOT COMPARE EQUAL                1304.32 C0           026540.40
        LX,$X3,XCSZ33       -40 RIGHT HAND ONES                      22003.06 10          026541.00
        KV,$X3,XCSZ41       -TEST BITS 0-24                          22010.46 90          026541.40
        SIC,SEN                                                      1310.00 80           026542.00
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              BZXEZ,SERS    -ERR IF NO COMPARE EQUAL              1304.32 C4      026542.40
       KC,$X3,XCSZ38        -TEST 28-45 FOR 18 ONES              22007.07 90     026543.00
       SIC,SEN                                                   1310.00 80      026543.40
              BZXE,SERS     -COUNT FIELD MUST BE ALL ONES        1304.32 C0      026544.00
       SR,$X3,XCSZ5         -REFILL TO WORK AREA                 21756.07 70     026544.40
       SIC,SEN                                                   1310.00 80      026545.00
              BZXF,SERS     -ERR IF XF IS ZERO                   1304.23 40      026545.40
       LC,$X3,XCSZ5         -REFILL INTO COUNT FIELD             21756.06 50     026546.00
       KC,$X3,XCSZ38        -TEST REFILL FOR 18 ONES 46-63       22007.07 90     026546.40
       SIC,SEN                                                   1310.00 80      026547.00
              BZXE,SERS     -ERR IF NOT COMPARE EQUAL            1304.32 C0      026547.40
       NOP,0                                                     0.30 00         026550.00
              NOP,0                                              0.30 00         026550.40
       LX,$X3,XCSZ34        -48 RIGHT HAND ONES                  22004.06 10     026551.00
       KV,$X3,XCSZ42        -TEST BITS 0-24                      22011.06 90     026551.40
       SIC,SEN                                                   1310.00 80      026552.00
              BZXEZ,SERS    -ERR IF NO COMPARE EQUAL             1304.32 C4      026552.40
       KC,$X3,XCSZ38        -TEST 28-45 FOR 18 ONES              22007.07 90     026553.00
       SIC,SEN                                                   1310.00 80      026553.40
              BZXE,SERS     -COUNT FIELD MUST BE ALL ONES        1304.32 C0      026554.00
       SR,$X3,XCSZ5         -REFILL TO WORK AREA                 21756.07 70     026554.40
       SIC,SEN                                                   1310.00 80      026555.00
              BZXF,SERS     -ERR IF XF NOT ONE                   1304.23 40      026555.40
       LC,$X3,XCSZ5         -REFILL INTO COUNT FIELD             21756.06 50     026556.00
       KC,$X3,XCSZ38        -TEST REFILL FOR 18 ONES 46-63       22007.07 90     026556.40
       SIC,SEN                                                   1310.00 80      026557.00
              BZXE,SERS     -ERR IF NOT COMPARE EQUAL            1304.32 C0      026557.40
       NOP,0                                                     0.30 00         026560.00
              NOP,0                                              0.30 00         026560.40
       LX,$X3,XCSZ35        -56 RIGHT HAND ONES                  22005.06 10     026561.00
       KV,$X3,XCSZ43        -TEST BITS 0-24                      22011.46 90     026561.40
       SIC,SEN                                                   1310.00 80      026562.00
              BZXEZ,SERS    -ERR IF NO COMPARE EQUAL             1304.32 C4      026562.40
       KC,$X3,XCSZ38        -TEST 28-45 FOR 18 ONES              22007.07 90     026563.00
       SIC,SEN                                                   1310.00 80      026563.40
              BZXE,SERS     -COUNT FIELD MUST BE ALL ONES        1304.32 C0      026564.00
       SR,$X3,XCSZ5         -REFILL TO WORK AREA                 21756.07 70     026564.40
       SIC,SEN                                                   1310.00 80      026565.00
              BZXF,SERS     -ERR IF XF NOT ONE                   1304.23 40      026565.40
       LC,$X3,XCSZ5         -REFILL TO COUNT FIELD               21756.06 50     026566.00
       KC,$X3,XCSZ38        -TEST REFILL FOR 18 ONES 46-63       22007.07 90     026566.40
       SIC,SEN                                                   1310.00 80      026567.00
              BZXE,SERS     -ERR IF NOT COMPARE EQUAL            1304.32 C0      026567.40
       NOP,0                                                     0.30 00         026570.00
              NOP,0                                              0.30 00         026570.40
       LX,$X3,XCSZ1         -RESTORE X3 TO ALL ONES              21753.06 10     026571.00
       B,$+1,0                                                   26572.50 00     026571.40
              B,XCS16D      -TO LOOP IN X3 MARCHING ONES         26472.10 00     026572.00
       SIC,SEN0+.32                                              1311.40 80      026572.40
              B,SSW         -TO TEST SENSE SWITCHES              1301.10 00      026573.00
XCS16H LX,$X7,XCSZ2         -LOAD WITH ZEROS ONE TIME            21754.16 10     026573.40
       KV,$X7,XCSZ2         -TEST BITS 0-24                      21754.16 90     026574.00
       SIC,SEN                                                   1310.00 80      026574.40
              BZXEZ,SERS    -ERROR IF BIT PICKED UP              1304.32 C4      026575.00
       KC,$X7,XCSZ2         -TEST BITS 28-45                     21754.17 90     026575.40
       SIC,SEN                                                   1310.00 80      026576.00
              BZXE,SERS     -COUNT FIELDS MUST COMPARE           1304.32 C0      026576.40
       SR,$X7,XCSZ5         -REFILL TO WORK AREA                 21756.17 70     026577.00
       SIC,SEN                                                   1310.00 80      026577.40
              BXF,SERS      -ERR IF XF IS ONE                    1304.23 42      026600.00
       LC,$X7,XCSZ5         -REFILL INTO COUNT FIELD             21756.16 50     026600.40
       KC,$X7,XCSZ2         -TEST REFILL BITS 46-63              21754.17 90     026601.00
       SIC,SEN                                                   1310.00 80      026601.40
              BZXE,SERS     -ERR IF NOT COMPARE EQUAL            1304.32 C0      026602.00
       NOP,0                                                     0.30 00         026602.40
              NOP,0                                              0.30 00         026603.00
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LX,$X7,XCSZ29          -EIGHT RIGHT HAND ONES                        21777.16 10          026603.40
KV,$X7,XCSZ2           -TEST BITS 0-24                               21754.16 90          026604.00
SIC,SEN                                                              1310.00 80           026604.40
        BZXEZ,SERS     -ERROR IF BIT PICKED UP                       1304.32 C4           026605.00
KC,$X7,XCSZ2           -TEST BITS 28-45                              21754.17 90          026605.40
SIC,SEN                                                              1310.00 80           026606.00
        BZXE,SERS      -COUNT FIELD MUST BE ALL ZEROS                1304.32 C0           026606.40
SR,$X7,XCSZ5           -REFILL INTO WORK AREA                        21756.17 70          026607.00
SIC,SEN                                                              1310.00 80           026607.40
        BXF,SERS       -ERR IF XF IS ONE                             1304.23 42           026610.00
LC,$X7,XCSZ5           -REFILL INTO COUNT FIELD                      21756.16 50          026610.40
KC,$X7,XCSZ36          -TEST REFILL FOR 8 ONES 46-63                 22006.17 90          026611.00
SIC,SEN                                                              1310.00 80           026611.40
        BZXE,SERS      -ERR IF NOT COMPARE EQUAL                     1304.32 C0           026612.00
NOP,0                                                                0.30 00              026612.40
    NOP,0                                                            0.30 00              026613.00
LX,$X7,XCSZ30          -16 RIGHT HAND ONES                           22000.16 10          026613.40
KV,$X7,XCSZ2           -TEST BITS 0-24.                              21754.16 90          026614.00
SIC,SEN                                                              1310.00 80           026614.40
        BZXEZ,SERS     -ERROR IF BIT PICKED UP                       1304.32 C4           026615.00
KC,$X7,XCSZ2           -TEST BITS 28-45                              21754.17 90          026615.40
SIC,SEN                                                              1310.00 80           026616.00
        BZXE,SERS      -COUNT FIELD MUST BE ALL ZEROS                1304.32 C0           026616.40
SR,$X7,XCSZ5           -REFILL TO WORK AREA                          21756.17 70          026617.00
SIC,SEN                                                              1310.00 80           026617.40
        BXF,SERS       -ERR IF XF IS ONE                             1304.23 42           026620.00
LC,$X7,XCSZ5           -REFILL INTO COUNT FIELD                      21756.16 50          026620.40
KC,$X7,XCSZ37          -TEST REFILL FOR 16 ONES 46-63                22006.57 90          026621.00
SIC,SEN                                                              1310.00 80           026621.40
        BZXE,SERS      -ERR IF NOT COMPARE EQUAL                     1304.32 C0           026622.00
NOP,0                                                                0.30 00              026622.40
    NOP,0                                                            0.30 00              026623.00
LX,$X7,XCSZ31          -24 RIGHT HAND ONES                           22001.16 10          026623.40
KV,$X7,XCSZ2           -TEST BITS 0-24                               21754.16 90          026624.00
SIC,SEN                                                              1310.00 80           026624.40
        BZXEZ,SERS     -ERROR IF BIT PICKED UP                       1304.32 C4           026625.00
KC,$X7,XCSZ39          -TEST 28-45 FOR 6 ONES                        22007.57 90          026625.40
SIC,SEN                                                              1310.00 80           026626.00
        BZXE,SERS      -COUNT FIELD MUST COMPARE                     1304.32 C0           026626.40
SR,$X7,XCSZ5           -REFILL TO WORK AREA                          21756.17 70          026627.00
SIC,SEN                                                              1310.00 80           026627.40
        BXF,SERS       -ERR IF XF IS ONE                             1304.23 42           026630.00
LC,$X7,XCSZ5           -REFILL INTO COUNT FIELD                      21756.16 50          026630.40
KC,$X7,XCSZ38          -TEST REFILL FOR 18 ONES                      22007.17 90          026631.00
SIC,SEN                                                              1310.00 80           026631.40
        BZXE,SERS      -ERR IF NOT COMPARE EQUAL                     1304.32 C0           026632.00
NOP,0                                                                0.30 00              026632.40
    NOP,0                                                            0.30 00              026633.00
LX,$X7,XCSZ32          -32 RIGHT HAND ONES                           22002.16 10          026633.40
KV,$X7,XCSZ2           -TEST BITS 0-24                               21754.16 90          026634.00
SIC,SEN                                                              1310.00 80           026634.40
        BZXEZ,SERS     -ERROR IF BIT PICKED UP                       1304.32 C4           026635.00
KC,$X7,XCSZ40          -TEST 28-45 FOR 14 ONES                       22010.17 90          026635.40
SIC,SEN                                                              1310.00 80           026636.00
        BZXE,SERS      -COUNT FIELD MUST COMPARE                     1304.32 C0           026636.40
SR,$X7,XCSZ5           -REFILL TO WORK AREA                          21756.17 70          026637.00
SIC,SEN                                                              1310.00 80           026637.40
        BXF,SERS       -ERROR IF XF IS ONE                           1304.23 42           026640.00
LC,$X7,XCSZ5           -REFILL INTO COUNT FIELD                      21756.16 50          026640.40
KC,$X7,XCSZ38          -TEST REFILL FOR 18 ONES 46-63                22007.17 90          026641.00
SIC,SEN                                                              1310.00 80           026641.40
        BZXE,SERS      -ERR IF NOT COMPARE EQUAL                     1304.32 C0           026642.00
NOP,0                                                                0.30 00              026642.40
    NOP,0                                                            0.30 00              026643.00
LX,$X7,XCSZ33          -40 RIGHT HAND ONES                           22003.16 10          026643.40
KV,$X7,XCSZ41          -TEST BITS 0-24                               22010.56 90          026644.00
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        SIC,SEN                                         1310.00 80        026644.40
            BZXEZ,SERS   -ERR IF NO COMPARE EQUAL       1304.32 C4        026645.00
        KC,$X7,XCSZ38    -TEST 28-45 FOR 18 ONES        22007.17 90       026645.40
        SIC,SEN                                         1310.00 80        026646.00
            BZXE,SERS    -COUNT FIELD MUST BE ALL ONES  1304.32 C0        026646.40
        SR,$X7,XCSZ5     -REFILL INTO WORK AREA          21756.17 70       026647.00
        SIC,SEN                                         1310.00 80        026647.40
            BZXF,SERS    -ERR IF XF IS ZERO             1304.23 40        026650.00
        LC,$X7,XCSZ5     -REFILL INTO COUNT FIELD        21756.16 50       026650.40
        KC,$X7,XCSZ38    -TEST REFILL FOR 18 ONES 46-63 22007.17 90       026651.00
        SIC,SEN                                         1310.00 80        026651.40
            BZXE,SERS    -ERR IF NOT COMPARE EQUAL      1304.32 C0        026652.00
        NOP,0                                           0.30 00           026652.40
            NOP,0                                       0.30 00           026653.00
        LX,$X7,XCSZ34    -48 RIGHT HAND ONES            22004.16 10       026653.40
        KV,$X7,XCSZ42    -TEST BITS 0-24                22011.16 90       026654.00
        SIC,SEN                                         1310.00 80        026654.40
            BZXEZ,SERS   -ERR IF NO COMPARE EQUAL       1304.32 C4        026655.00
        KC,$X7,XCSZ38    -TEST 28-45 FOR 18 ONES        22007.17 90       026655.40
        SIC,SEN                                         1310.00 80        026656.00
            BZXE,SERS    -COUNT FIELD MUST BE ALL ONES  1304.32 C0        026656.40
        SR,$X7,XCSZ5     -REFILL INTO WORK AREA          21756.17 70       026657.00
        SIC,SEN                                         1310.00 80        026657.40
            BZXF,SERS    -ERR IF XF IS ZERO             1304.23 40        026660.00
        LC,$X7,XCSZ5     -REFILL INTO COUNT FIELD        21756.16 50       026660.40
        KC,$X7,XCSZ38    -TEST REFILL FOR 18 ONES 46-63 22007.17 90       026661.00
        SIC,SEN                                         1310.00 80        026661.40
            BZXE,SERS    -ERR IF NO COMPARE EQUAL       1304.32 C0        026662.00
        NOP,0                                           0.30 00           026662.40
            NOP,0                                       0.30 00           026663.00
        LX,$X7,XCSZ35    -56 RIGHT HAND ONES            22005.16 10       026663.40
        KV,$X7,XCSZ43    -TEST BITS 0-24                22011.56 90       026664.00
        SIC,SEN                                         1310.00 80        026664.40
            BZXEZ,SERS   -ERR IF NO COMPARE EQUAL       1304.32 C4        026665.00
        KC,$X7,XCSZ38    -TEST 28-45 FOR 18 ONES        22007.17 90       026665.40
        SIC,SEN                                         1310.00 80        026666.00
            BZXE,SERS    -COUNT FIELD MUST BE ALL ONES  1304.32 C0        026666.40
        SR,$X7,XCSZ5     -REFILL INTO WORK AREA          21756.17 70       026667.00
        SIC,SEN                                         1310.00 80        026667.40
            BZXF,SERS    -ERR IF XF IS ZERO             1304.23 40        026670.00
        LC,$X7,XCSZ5     -REFILL TO COUNT FIELD          21756.16 50       026670.40
        KC,$X7,XCSZ38    -TEST REFILL FOR 18 ONES 46-63 22007.17 90       026671.00
        SIC,SEN                                         1310.00 80        026671.40
            BZXE,SERS    -ERR IF NOT COMPARE EQUAL      1304.32 C0        026672.00
        NOP,0                                           0.30 00           026672.40
            NOP,0                                       0.30 00           026673.00
        LX,$X7,XCSZ1     -RESTORE X7 TO ALL ONES         21753.16 10       026673.40
        B,$+1,0                                         26675.10 00       026674.00
            B,XCS16H     -TO LOOP IN X7 MARCHING ONES   26573.50 00       026674.40
        SIC,SEN0+.32                                    1311.40 80        026675.00
                B,SSW    -TO TEST SENSE SWITCHES        1301.10 00        026675.40
XCS16L  LX,$X11,XCSZ2    -LOAD WITH ZEROS               21754.26 10       026676.00
        KV,$X11,XCSZ2    -TEST BITS 0-24                21754.26 90       026676.40
        SIC,SEN                                         1310.00 80        026677.00
            BZXEZ,SERS   -ERROR IF BIT PICKED UP        1304.32 C4        026677.40
        KC,$X11,XCSZ2    -TEST BITS 28-45               21754.27 90       026700.00
        SIC,SEN                                         1310.00 80        026700.40
            BZXE,SERS    -COUNT FIELD MUST COMPAREA     1304.32 C0        026701.00
        SR,$X11,XCSZ5    -REFILL TO WORK AREA            21756.27 70       026701.40
        SIC,SEN                                         1310.00 80        026702.00
            BXF,SERS     -ERR IF XF IS ONE              1304.23 42        026702.40
        LC,$X11,XCSZ5    -REFILL INTO COUNT FIELD        21756.26 50       026703.00
        KC,$X11,XCSZ2    -TEST REFILL BITS 46-63        21754.27 90       026703.40
        SIC,SEN                                         1310.00 80        026704.00
            BZXE,SERS    -ERR IF NOT COMPARE EQUAL      1304.32 C0        026704.40
        NOP,0                                           0.30 00           026705.00
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NOP,0		0.30 00	026705.40
LX,$X11,XCSZ29	-8 RIGHT HAND ONES	21777.26 10	026706.00
KV,$X11,XCSZ2	-TEST BITS 0-24	21754.26 90	026706.40
SIC,SEN		1310.00 80	026707.00
BZXEZ,SERS	-ERROR IF BIT PICKED UP	1304.32 C4	026707.40
KC,$X11,XCSZ2	-TEST BITS 28-45	21754.27 90	026710.00
SIC,SEN		1310.00 80	026710.40
BZXE,SERS	-COUNT FIELD MUST BE ALL ZEROS	1304.32 C0	026711.00
SR,$X11,XCSZ5	-REFILL INTO WORK AREA	21756.27 70	026711.40
SIC,SEN		1310.00 80	026712.00
BXF,SERS	-ERR IF XF IS ONE	1304.23 42	026712.40
LC,$X11,XCSZ5	-REFILL INTO COUNT FIELD	21756.26 50	026713.00
KC,$X11,XCSZ36	-TEST REFILL FOR 8 ONES 46-63	22006.27 90	026713.40
SIC,SEN		1310.00 80	026714.00
BZXE,SERS	-ERR IF NOT COMPARE EQUAL	1304.32 C0	026714.40
NOP,0		0.30 00	026715.00
NOP,0		0.30 00	026715.40
LX,$X11,XCSZ30	-16 RIGHT HAND ONES	22000.26 10	026716.00
KV,$X11,XCSZ2	-TEST BITS 0-24	21754.26 90	026716.40
SIC,SEN		1310.00 80	026717.00
BZXEZ,SERS	-ERROR IF BIT PICKED UP	1304.32 C4	026717.40
KC,$X11,XCSZ2	-TEST BITS 28-45	21754.27 90	026720.00
SIC,SEN		1310.00 80	026720.40
BZXE,SERS	-COUNT FIELD ALL ZEROS	1304.32 C0	026721.00
SR,$X11,XCSZ5	-REFILL INTO WORK AREA	21756.27 70	026721.40
SIC,SEN		1310.00 80	026722.00
BXF,SERS	-ERR IF XF IS ONE	1304.23 42	026722.40
LC,$X11,XCSZ5	-REFILL INTO COUNT FIELD	21756.26 50	026723.00
KC,$X11,XCSZ37	-TEST REFILL FOR 16 ONES 46-63	22006.67 90	026723.40
SIC,SEN		1310.00 80	026724.00
BZXE,SERS	-ERR IF NOT COMPARE EQUAL	1304.32 C0	026724.40
NOP,0		0.30 00	026725.00
NOP,0		0.30 00	026725.40
LX,$X11,XCSZ31	-24 RIGHT HAND ONES	22001.26 10	026726.00
KV,$X11,XCSZ2	-TEST BITS 0-24	21754.26 90	026726.40
SIC,SEN		1310.00 80	026727.00
BZXEZ,SERS	-ERROR IF BIT PICKED UP	1304.32 C4	026727.40
KC,$X11,XCSZ39	-TEST 28-45 FOR 6 ONES	22007.67 90	026730.00
SIC,SEN		1310.00 80	026730.40
KC,$X11,XCSZ39	-TEST 28-45 FOR 6 ONES	22007.67 90	026730.00
SIC,SEN		1310.00 80	026730.40
BZXE,SERS	-COUNT FIELD MUST COMPARE	1304.32 C0	026731.00
SR,$X11,XCSZ5	-REFILL INTO WORK AREA	21756.27 70	026731.40
SIC,SEN		1310.00 80	026732.00
BXF,SERS	-ERR IF XF IS ONE	1304.23 42	026732.40
LC,$X11,XCSZ5	-REFILL INTO COUNT FIELD	21756.26 50	026733.00
KC,$X11,XCSZ38	-TEST REFILL FOR 18 ONES	22007.27 90	026733.40
SIC,SEN		1310.00 80	026734.00
BZXE,SERS	-ERR IF NOT COMPARE EQUAL	1304.32 C0	026734.40
NOP,0		0.30 00	026735.00
NOP,0		0.30 00	026735.40
LX,$X11,XCSZ32	-32 RIGHT HAND ONES	22002.26 10	026736.00
KV,$X11,XCSZ2	-TEST BITS 0-24	21754.26 90	026736.40
SIC,SEN		1310.00 80	026737.00
BZXEZ,SERS	-ERROR IF BIT PICKED UP	1304.32 C4	026737.40
KC,$X11,XCSZ40	-TEST 28-45 FOR 14 ONES	22010.27 90	026740.00
SIC,SEN		1310.00 80	026740.40
BZXE,SERS	-COUNT FIELD MUST COMPARE	1304.32 C0	026741.00
SR,$X11,XCSZ5	-REFILL TO WORK AREA	21756.27 70	026741.40
SIC,SEN		1310.00 80	026742.00
BXF,SERS	-ERROR IF XF IS ONE	1304.23 42	026742.40
LC,$X11,XCSZ5	-REFILL INTO COUNT FIELD	21756.26 50	026743.00
KC,$X11,XCSZ38	-TEST REFILL FOR 18 ONES 46-63	22007.27 90	026743.40
SIC,SEN		1310.00 80	026744.00

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          BZXE,SERS       -ERROR IF NOT COMPARE EQUAL              1304.32 CO        026744.40
NOP,0                                                             0.30 00           026745.00
      NOP,0                                                       0.30 00           026745.40
LX,$X11,XCSZ33            -40 RIGHT HAND ONES                     22003.26 10       026746.00
KV,$X11,XCSZ41            -TEST BITS 0-24                         22010.66 90       026746.40
SIC,SEN                                                          1310.00 80        026747.00
          BZXEZ,SERS      -ERR IF NO COMPARE EQUAL                1304.32 C4        026747.40
KC,$X11,XCSZ38           -TEST 28-45 FOR 18 ONES                  22007.27 90       026750.00
SIC,SEN                                                          1310.00 80        026750.40
          BZXE,SERS       -COUNTFIELD MUST BE ALL ONES            1304.32 CO        026751.00
SR,$X11,XCSZ5            -REFILL TO WORK AREA                     21756.27 70       026751.40
SIC,SEN                                                          1310.00 80        026752.00
          BZXF,SERS       -ERR IF XF IS ZERO                      1304.23 40        026752.40
LC,$X11,XCSZ5            -REFILL INTO COUNTFIELD                  21756.26 50       026753.00
KC,$X11,XCSZ38           -TEST REFILL FOR 18 ONES 46-63           22007.27 90       026753.40
SIC,SEN                                                          1310.00 80        026754.00
          BZXE,SERS       -ERROR IF NOT COMPARE EQUAL             1304.32 CO        026754.40
NOP,0                                                             0.30 00           026755.00
      NOP,0                                                       0.30 00           026755.40
LX,$X11,XCSZ34           -48 RIGHT HAND ONES                      22004.26 10       026756.00
KV,$X11,XCSZ42           -TEST BITS 0-24                          22011.26 90       026756.40
SIC,SEN                                                          1310.00 80        026757.00
          BZXEZ,SERS      -ERROR IF NO COMPARE EQUAL              1304.32 C4        026757.40
KC,$X11,XCSZ38           -TEST 28-45 FOR 18 ONES                  22007.27 90       026760.00
SIC,SEN                                                          1310.00 80        026760.40
          BZXE,SERS       -COUNT FIELD MUST BE ALL ONES           1304.32 CO        026761.00
SR,$X11,XCSZ5            -REFILL INTO WORK AREA                    21756.27 70       026761.40
SIC,SEN                                                          1310.00 80        026762.00
          BZXF,SERS       -ERR IF XF IS ZERO                      1304.23 40        026762.40
LC,$X11,XCSZ5            -REFILL INTO COUNT FIELD                 21756.26 50       026763.00
KC,$X11,XCSZ38           -TEST FRFILL FOR 18 ONES 46-63           22007.27 90       026763.40
SIC,SEN                                                          1310.00 80        026764.00
          BZXE,SERS       -ERR IF NO COMPARE EQUAL                1304.32 CO        026764.40
NOP,0                                                             0.30 00           026765.00
      NOP,0                                                       0.30 00           026765.40
LX,$X11,XCSZ35           -56 RIGHT HAND ONES                      22005.26 10       026766.00
KV,$X11,XCSZ43           -TEST BITS 0-24.                         22011.66 90       026766.40
SIC,SEN                                                          1310.00 80        026767.00
          BZXEZ,SERS      -ERR IF NO COMPARE EQUAL                1304.32 C4        026767.40
KC,$X11,XCSZ38           -TEST 28-45 FOR 18 ONES                  22007.27 90       026770.00
SIC,SEN                                                          1310.00 80        026770.40
          BZXE,SERS       -COUNT FIELD MUST BE ALL ONES           1304.32 CO        026771.00
SR,$X11,XCSZ5            -REFILL INTO WORK AREA                    21756.27 70       026771.40
SIC,SEN                                                          1310.00 80        026772.00
          BZXF,SERS       -ERR IF XF IS ZERO                      1304.23 40        026772.40
LC,$X11,XCSZ5            -REFILL INTO COUNTFIELD                  21756.26 50       026773.00
KC,$X11,XCSZ38           -TEST REFILL FOR 18 ONES 46-63           22007.27 90       026773.40
SIC,SEN                                                          1310.00 80        026774.00
          BZXE,SERS       -ERR IF NOT COMPARE EQUAL               1304.32 CO        026774.40
NOP,0                                                             0.30 00           026775.00
      NOP,0                                                       0.30 00           026775.40
LX,$X11,XCSZ1            -RESTORE X11 TO ALL ONES                 21753.26 10       026776.00
B,$+1.0                                                          26777.50 00       026776.40
          B,XCS16L        -TO LOOP IN X11 MARCHING ONES           26676.10 00       026777.00
SIC,SEN0+.32                                                     1311.40 80        026777.40
          B,SSW           -TO TEST SENSE SWITCHES                 1301.10 00        027000.00
XCS16Q    LX,$X15,XCSZ2   -LOAD WITH ZEROS                        21754.36 10       027000.40
KV,$X15,XCSZ2            -TEST BITS 0-24                          21754.36 90       027001.00
SIC,SEN                                                          1310.00 80        027001.40
          BZXEZ,SERS      -ERROR IF BIT PICKED UP                 1304.32 C4        027002.00
KC,$X15,XCSZ2            -TEST BITS 28-45                         21754.37 90       027002.40
SIC,SEN                                                          1310.00 80        027003.00
          BZXE,SERS       -COUNT FIELD MUST COMPARE               1304.32 CO        027003.40
SR,$X15,XCSZ5            -REFILL TO WORK AREA                     21756.37 70       027004.00
SIC,SEN                                                          1310.00 80        027004.40
          BXF,SERS        -ERR IF XF IS ONE                       1304.23 42        027005.00
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LC,$X15,XCSZ5        -REFILL INTO COUNT FIELD              21756.36 50      027005.40
KC,$X15,XCSZ2        -TEST REFILL BITS 46-63              21754.37 90      027006.00
SIC,SEN                                                   1310.00 80       027006.40
        BZXE,SERS    -ERR IF NOT COMPARE EQUAL            1304.32 C0       027007.00
NOP,0                                                     0.30 00          027007.40
    NOP,0                                                 0.30 00          027010.00
LX,$X15,XCSZ29       -8 RIGHT HAND ONES                   21777.36 10      027010.40
KV,$X15,XCSZ2        -TEST BITS 0-24                      21754.36 90      027011.00
SIC,SEN                                                   1310.00 80       027011.40
        BZXEZ,SERS   -ERROR IF BIT PICKED UP              1304.32 C4       027012.00
KC,$X15,XCSZ2        -TEST BITS 28-45                     21754.37 90      027012.40
SIC,SEN                                                   1310.00 80       027013.00
        BZXE,SERS    -COUNT FIELD MUST COMPARE            1304.32 C0       027013.40
SR,$X15,XCSZ5        -REFILL TO WORK AREA                 21756.37 70      027014.00
SIC,SEN                                                   1310.00 80       027014.40
        BXF,SERS     -ERROR IF XF IS ONE                  1304.23 42       027015.00
LC,$X15,XCSZ5        -REFILL INTO COUNT FIELD             21756.36 50      027015.40
KC,$X15,XCSZ36       -TEST REFILL FOR 8 ONES 46-63        22006.37 90      027016.00
SIC,SEN                                                   1310.00 80       027016.40
        BZXE,SERS    -ERR IF NOT COMPARE EQUAL            1304.32 C0       027017.00
NOP,0                                                     0.30 00          027017.40
    NOP,0                                                 0.30 00          027020.00
LX,$X15,XCSZ30       -16 RIGHT HAND ONES                  22000.36 10      027020.40
KV,$X15,XCSZ2        -TEST BITS 0-24                      21754.36 90      027021.00
SIC,SEN                                                   1310.00 80       027021.40
        BZXEZ,SERS   -ERROR IF BIT PICKED UP              1304.32 C4       027022.00
KC,$X15,XCSZ2        -TEST BITS 28-45                     21754.37 90      027022.40
SIC,SEN                                                   1310.00 80       027023.00
        BZXE,SERS    -COUNT FIELD SHOULD BE ZEROS         1304.32 C0       027023.40
SR,$X15,XCSZ5        -REFILL TO WORK AREA                 21756.37 70      027024.00
SIC,SEN                                                   1310.00 80       027024.40
        BXF,SERS     -ERR IF XF IS ONE                    1304.23 42       027025.00
LC,$X15,XCSZ5        -REFILL INTO COUNT FIELD             21756.36 50      027025.40
KC,$X15,XCSZ37       -TEST REFILL FOR 16 ONES 46-63       22006.77 90      027026.00
NOP,0                                                     0.30 00          027026.40
    NOP,0                                                 0.30 00          027027.00
SIC,SEN                                                   1310.00 80       027027.40
        BZXE,SERS    -ERR IF NOT COMPARE EQUAL            1304.32 C0       027030.00
LX,$X15,XCSZ31       -24 RIGHT HAND ONES                  22001.36 10      027030.40
KV,$X15,XCSZ2        -TEST BITS 0-24                      21754.36 90      027031.00
SIC,SEN                                                   1310.00 80       027031.40
        BZXEZ,SERS   -ERROR IF BIT PICKED UP              1304.32 C4       027032.00
KC,$X15,XCSZ39       -TEST 28-45 FOR 6 ONES               22007.77 90      027032.40
SIC,SEN                                                   1310.00 80       027033.00
        BZXE,SERS    -COUNT FIELD MUST COMPARE            1304.32 C0       027033.40
SR,$X15,XCSZ5        -REFILL INTO WORK AREA               21756.37 70      027034.00
SIC,SEN                                                   1310.00 80       027034.40
        BXF,SERS     -ERR IF XF IS ONE                    1304.23 42       027035.00
LC,$X15,XCSZ5        -REFILL INTO COUNT FIELD             21756.36 50      027035.40
KC,$X15,XCSZ38       -TEST REFILL FOR 18 ONES             22007.37 90      027036.00
SIC,SEN                                                   1310.00 80       027036.40
        BZXE,SERS    -ERROR IF NOT COMPARE EQUAL          1304.32 C0       027037.00
NOP,0                                                     0.30 00          027037.40
    NOP,0                                                 0.30 00          027040.00
LX,$X15,XCSZ32       -32 RIGHT HAND ONES                  22002.36 10      027040.40
KV,$X15,XCSZ2        -TEST BITS 0-24                      21754.36 90      027041.00
SIC,SEN                                                   1310.00 80       027041.40
        BZXEZ,SERS   -ERROR IF BIT PICKED UP              1304.32 C4       027042.00
KC,$X15,XCSZ40       -TEST 28-45 FOR 14 ONES.             22010.37 90      027042.40
SIC,SEN                                                   1310.00 80       027043.00
        BZXE,SERS    -COUNT FIELD MUST COMPARE            1304.32 C0       027043.40
SR,$X15,XCSZ5        -REFILL TO WORK AREA                 21756.37 70      027044.00
SIC,SEN                                                   1310.00 80       027044.40
        BXF,SERS     -ERROR IF XF IS ONE                  1304.23 42       027045.00
LC,$X15,XCSZ5        -REFILL INTO COUNT FIELD             21756.36 50      027045.40
KC,$X15,XCSZ38       -TEST REFILL FOR 18 ONES 46-63       22007.37 90      027046.00
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      SIC,SEN                                               1310.00 80        027046.40
            BZXE,SERS    -ERROR IF NOT COMPARE EQUAL        1304.32 CO        027047.00
      NOP,0                                                    0.30 00        027047.40
         NOP,0                                                 0.30 00        027050.00
      LX,$X15,XCSZ33    -40 RIGHT HAND ONES.                22003.36 10       027050.40
      KV,$X15,XCSZ41    -TEST BITS 0-24.                    22010.76 90       027051.00
      SIC,SEN                                               1310.00 80        027051.40
            BZXEZ,SERS   -ERR IF NO COMPARE EQUAL           1304.32 C4        027052.00
      KC,$X15,XCSZ38    -TEST 28-45 FOR 18 ONES             22007.37 90       027052.40
      SIC,SEN                                               1310.00 80        027053.00
            BZXE,SERS    -COUNT FIELD MUST BE ALL ONES      1304.32 CO        027053.40
      SR,$X15,XCSZ5     -REFILL TO WORK AREA                21756.37 70       027054.00
      SIC,SEN                                               1310.00 80        027054.40
            BZXF,SERS    -ERR IF XF IS ZERO                 1304.23 40        027055.00
      LC,$X15,XCSZ5     -REFILL INTO COUNT FIELD            21756.36 50       027055.40
      KC,$X15,XCSZ38    -TEST REFILL FOR 18 ONES 46-63      22007.37 90       027056.00
      SIC,SEN                                               1310.00 80        027056.40
            BZXE,SERS    -ERR IF NOT COMPARE EQUAL          1304.32 CO        027057.00
      NOP,0                                                    0.30 00        027057.40
         NOP,0                                                 0.30 00        027060.00
      LX,$X15,XCSZ34    -48 RIGHT HAND ONES                 22004.36 10       027060.40
      KV,$X15,XCSZ42    -TEST BITS 0-24                     22011.36 90       027061.00
      SIC,SEN                                               1310.00 80        027061.40
            BZXEZ,SERS   -ERROR IF NO COMPARE EQUAL         1304.32 C4        027062.00
      KC,$X15,XCSZ38    -TEST 28-45 FOR 18 ONES             22007.37 90       027062.40
      SIC,SEN                                               1310.00 80        027063.00
            BZXE,SERS    -COUNT FIELD MUST BE ALL ONES      1304.32 CO        027063.40
      SR,$X15,XCSZ5     -REFILL INTO WORK AREA              21756.37 70       027064.00
      SIC,SEN                                               1310.00 80        027064.40
            BZXF,SERS    -ERR IF XF IS ZERO                 1304.23 40        027065.00
      LC,$X15,XCSZ5     -REFILL INTO COUNT FIELD            21756.36 50       027065.40
      KC,$X15,XCSZ38    -TEST REFILL FOR 18 ONES 46-63      22007.37 90       027066.00
      SIC,SEN                                               1310.00 80        027066.40
            BZXE,SERS    -ERR IF NO COMPARE EQUAL           1304.32 CO        027067.00
      NOP,0                                                    0.30 00        027067.40
         NOP,0                                                 0.30 00        027070.00
      LX,$X15,XCSZ35    -56 RIGHT HAND ONES                 22005.36 10       027070.40
      KV,$X15,XCSZ43    -TEST BITS 0-24                     22011.76 90       027071.00
      SIC,SEN                                               1310.00 80        027071.40
            BZXEZ,SERS   -ERR IF NO COMPARE EQUAL           1304.32 C4        027072.00
      KC,$X15,XCSZ38    -TEST 28-45 FOR 18 ONES             22007.37 90       027072.40
      SIC,SEN                                               1310.00 80        027073.00
            BZXE,SERS    -COUNT FIELD MUST BE ONES          1304.32 CO        027073.40
      SR,$X15,XCSZ5     -REFILL INTO WORK AREA              21756.37 70       027074.00
      SIC,SEN                                               1310.00 80        027074.40
            BZXF,SERS    -ERR IF XF IS ZERO                 1304.23 40        027075.00
      LC,$X15,XCSZ5     -REFILL INTO COUNT FIELD            21756.36 50       027075.40
      KC,$X15,XCSZ38    -TEST REFILL FOR 18 ONES 46-63      22007.37 90       027076.00
      SIC,SEN                                               1310.00 80        027076.40
            BZXE,SERS    -ERR IF NOT COMPARE EQUAL          1304.32 CO        027077.00
      NOP,0                                                    0.30 00        027077.40
         NOP,0                                                 0.30 00        027100.00
      LX,$X15,XCSZ1     -RESTORE X15 TO ALL ONES            21753.36 10       027100.40
      B,$+1.0                                               27102.10 10       027101.00
            B,XCS16Q     -TO LOOP IN X15 MARCHING ONES      27000.50 00       027101.40
      SIC,SEN0+.32                                          1311.40 80        027102.00
            B,SSW  -TO TEST SENSE SWITCHES                  1301.10 00        027102.40
      ----1222---CHECK SV AND SVA.


      -THIS TEST CHECKS THE SV AND SVA INSTRUCTIONS
      -FOR DATA AND THE STORING OF THE CORRECT
      -NUMBER OF BITS BY SVA.

 122  LX,$X1,1221D      -UPDATE IDENT                       27106.02 10       027103.00
      SX,$X1,DPET13                                         1437.03 10        027103.40
      SIC,RET                                               1306.40 80        027104.00
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          B,IDF1        -PRINT ID.                                    1443.10 00              027104.40
          Z,IC222                                                    31251.22 00              027105.00
          BD,1221                                                    27107.44 00              027105.40
          CNOP
1221D     %IQSZ¤DD%BU,64,8¤,I 222    Z                                                        027106.00

1221      LX,$X0,BIT0    -CHECK SV BIT 00 TO 3 MEMORIES.             33331.00 10              027107.40
          Z,122DMP                                                   31324.22 00              027110.00
          Z,$R                                                          11.22 00              027110.40
          Z,$X1                                                         21.22 00              027111.00
          SV,$X0,122DMP                                              31324.01 30              027111.40
          SV,$X0,$R                                                     11.01 30              027112.00
          SV,$X0,$X1                                                    21.01 30              027112.40
          KV,$X0,122DMP                                              31324.00 90              027113.00
          BXE,$+1.32                                                 27115.32 C2              027113.40
          SIC,SEN                                                     1310.00 80              027114.00
          B,SERS         -SV ABOVE BIT TO EXT MEM FAILED.             1304.10 00              027114.40

          KV,$X0,$R                                                     11.00 90              027115.00
          BXE,$+1.32                                                 27117.32 C2              027115.40
          SIC,SEN                                                     1310.00 80              027116.00
          B,SERS         -SV ABOVE BIT TO INT MEM FAILED.             1304.10 00              027116.40

          KV,$X0,$X1                                                    21.00 90              027117.00
          BXE,$+1.32                                                 27121.32 C2              027117.40
          SIC,SEN                                                     1310.00 80              027120.00
          B,SERS         -SV ABOVE BIT TO IX CORE STG FAILED.         1304.10 00              027120.40

          LX,$X0,BIT1    -CHECK SV BIT 01 TO 3 MEMORIES.             33332.00 10              027121.00
          Z,122DMP                                                   31324.22 00              027121.40
          Z,$R                                                          11.22 00              027122.00
          Z,$X1                                                         21.22 00              027122.40
          SV,$X0,122DMP                                              31324.01 30              027123.00
          SV,$X0,$R                                                     11.01 30              027123.40
          SV,$X0,$X1                                                    21.01 30              027124.00
          KV,$X0,122DMP                                              31324.00 90              027124.40
          BXE,$+1.32                                                 27126.72 C2              027125.00
          SIC,SEN                                                     1310.00 80              027125.40
          B,SERS         -SV ABOVE BIT TO EXT MEM FAILED.             1304.10 00              027126.00

          KV,$X0,$R                                                     11.00 90              027126.40
          BXE,$+1.32                                                 27130.72 C2              027127.00
          SIC,SEN                                                     1310.00 80              027127.40
          B,SERS         -SV ABOVE BIT TO INT MEM FAILED.             1304.10 00              027130.00

          KV,$X0,$X1                                                    21.00 90              027130.40
          BXE,$+1.32                                                 27132.72 C2              027131.00
          SIC,SEN                                                     1310.00 80              027131.40
          B,SERS         -SV ABOVE BIT TO IX CORE STG FAILED.         1304.10 00              027132.00
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                LX,$X0,BIT2        -CHECK SV BIT 02 TO 3 MEMORIES.     33333.00 10     027132.40
                Z,I22DMP                                              31324.22 00     027133.00
                Z,$R                                                     11.22 00     027133.40
                Z,$X1                                                    21.22 00     027134.00
                SV,$X0,I22DMP                                         31324.01 30     027134.40
                SV,$X0,$R                                                11.01 30     027135.00
                SV,$X0,$X1                                               21.01 30     027135.40
                KV,$X0,I22DMP                                         31324.00 90     027136.00
                BXE,$+1.32                                            27140.32 C2     027136.40
                SIC,SEN                                                1310.00 80     027137.00
                B,SERS            -SV ABOVE BIT TO EXT MEM FAILED.     1304.10 00     027137.40

                KV,$X0,$R                                                11.00 90     027140.00
                BXE,$+1.32                                            27142.32 C2     027140.40
                SIC,SEN                                                1310.00 80     027141.00
                B,SERS            -SV ABOVE BIT TO INT MEM FAILED.     1304.10 00     027141.40

                KV,$X0,$X1                                               21.00 90     027142.00
                BXE,$+1.32                                            27144.32 C2     027142.40
                SIC,SEN                                                1310.00 80     027143.00
                B,SERS            -SV ABOVE BIT TO IX CORE STG FAILED. 1304.10 00     027143.40

                B,$+1.0                                               27145.10 00     027144.00
                BD,I221                                               27107.44 00     027144.40
                SIC,SEN0+.32                                           1311.40 80     027145.00
                B,SSW             -TO SSIP.                            1301.10 00     027145.40
                BD,$+.32                                              27146.44 00     027146.00

                LX,$X13,IC222     -UPDATE CONTINUITY CHECK.           31251.32 10     027146.40
                V+,$X13,BIT0                                          33331.32 B0     027147.00
                SX,$X13,IC222                                         31251.33 10     027147.40
I222            LX,$X0,BIT3       -CHECK SV BIT 03 TO 3 MEMORIES.     33334.00 10     027150.00
                Z,I22DMP                                              31324.22 00     027150.40
                Z,$R                                                     11.22 00     027151.00
                Z,$X1                                                    21.22 00     027151.40
                SV,$X0,I22DMP                                         31324.01 30     027152.00
                SV,$X0,$R                                                11.01 30     027152.40
                SV,$X0,$X1                                               21.01 30     027153.00
                KV,$X0,I22DMP                                         31324.00 90     027153.40
                BXE,$+1.32                                            27155.72 C2     027154.00
                SIC,SEN                                                1310.00 80     027154.40
                B,SERS            -SV ABOVE BIT TO EXT MEM FAILED.     1304.10 00     027155.00

                KV,$X0,$R                                                11.00 90     027155.40
                BXE,$+1.32                                            27157.72 C2     027156.00
                SIC,SEN                                                1310.00 80     027156.40
                B,SERS            -SV ABOVE BIT TO INT MEM FAILED.     1304.10 00     027157.00

                KV,$X0,$X1                                               21.00 90     027157.40
                BXE,$+1.32                                            27161.72 C2     027160.00
                SIC,SEN                                                1310.00 80     027160.40
                B,SERS            -SV ABOVE BIT TO IX CORE STG FAILED. 1304.10 00     027161.00
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LX,$X0,BIT4        -CHECK SV BIT 04 TO 3 MEMORIES.        33335.00 10        027161.40
Z,I22DMP                                                  31324.22 00        027162.00
Z,$R                                                         11.22 00        027162.40
Z,$X1                                                        21.22 00        027163.00
SV,$X0,I22DMP                                             31324.01 30        027163.40
SV,$X0,$R                                                   11.01 30        027164.00
SV,$X0,$X1                                                  21.01 30        027164.40
KV,$X0,I22DMP                                             31324.00 90        027165.00
BXE,$+1.32                                                27167.32 C2        027165.40
SIC,SEN                                                    1310.00 80        027166.00
B,SERS             -SV ABOVE BIT TO EXT MEM FAILED.        1304.10 00        027166.40

KV,$X0,$R                                                   11.00 90        027167.00
BXE,$+1.32                                                27171.32 C2        027167.40
SIC,SEN                                                    1310.00 80        027170.00
B,SERS             -SV ABOVE BIT TO INT MEM FAILED.        1304.10 00        027170.40

KV,$X0,$X1                                                  21.00 90        027171.00
BXE,$+1.32                                                27173.32 C2        027171.40
SIC,SEN                                                    1310.00 80        027172.00
B,SERS             -SV ABOVE BIT TO IX CORE STG FAILED.    1304.10 00        027172.40

LX,$X0,BIT5        -CHECK SV BIT 05 TO 3 MEMORIES.        33336.00 10        027173.00
Z,I22DMP                                                  31324.22 00        027173.40
Z,$R                                                         11.22 00        027174.00
Z,$X1                                                        21.22 00        027174.40
SV,$X0,I22DMP                                             31324.01 30        027175.00
SV,$X0,$R                                                   11.01 30        027175.40
SV,$X0,$X1                                                  21.01 30        027176.00
KV,$X0,I22DMP                                             31324.00 90        027176.40
BXE,$+1.32                                                27200.72 C2        027177.00
SIC,SEN                                                    1310.00 80        027177.40
B,SERS             -SV ABOVE BIT TO EXT MEM FAILED.        1304.10 00        027200.00

KV,$X0,$R                                                   11.00 90        027200.40
BXE,$+1.32                                                27202.72 C2        027201.00
SIC,SEN                                                    1310.00 80        027201.40
B,SERS             -SV ABOVE BIT TO INT MEM FAILED.        1304.10 00        027202.00

KV,$X0,$X1                                                  21.00 90        027202.40
BXE,$+1.32                                                27204.72 C2        027203.00
SIC,SEN                                                    1310.00 80        027203.40
B,SERS             -SV ABOVE BIT TO IX CORE STG FAILED.    1304.10 00        027204.00

B,$+1.0                                                   27205.50 00        027204.40
BD,I222                                                   27150.04 00        027205.00
SIC,SEN0+.32                                               1311.40 80        027205.40
B,SSW              -TO SSIP.                               1301.10 00        027206.00
BD,$+.32                                                  27207.04 00        027206.40

LX,$X13,IC222      -UPDATE CONTINUITY CHECK.              31251.32 10        027207.00
V+,$X13,BIT1                                              33332.32 B0        027207.40
SX,$X13,IC222                                             31251.33 10        027210.00
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1223    LX,$X0,BIT6        -CHECK SV BIT 06 TO 3 MEMORIES.          33337.00 10        027210.40
        Z,122DMP                                                   31324.22 00        027211.00
        Z,$R                                                          11.22 00        027211.40
        Z,$X1                                                         21.22 00        027212.00
        SV,$X0,122DMP                                              31324.01 30        027212.40
        SV,$X0,$R                                                     11.01 30        027213.00
        SV,$X0,$X1                                                    21.01 30        027213.40
        KV,$X0,122DMP                                              31324.00 90        027214.00
        BXE,$+1.32                                                 27216.32 C2        027214.40
        SIC,SEN                                                     1310.00 80        027215.00
        B,SERS             -SV ABOVE BIT TO EXT MEM FAILED.         1304.10 00        027215.40

        KV,$X0,$R                                                     11.00 90        027216.00
        BXE,$+1.32                                                 27220.32 C2        027216.40
        SIC,SEN                                                     1310.00 80        027217.00
        B,SERS             -SV ABOVE BIT TO INT MEM FAILED.         1304.10 00        027217.40

        KV,$X0,$X1                                                    21.00 90        027220.00
        BXE,$+1.32                                                 27222.32 C2        027220.40
        SIC,SEN                                                     1310.00 80        027221.00
        B,SERS             -SV ABOVE BIT TO IX CORE STG FAILED.     1304.10 00        027221.40
        LX,$X0,BIT7        -CHECK SV BIT 07 TO 3 MEMORIES.          33340.00 10        027222.00
        Z,122DMP                                                   31324.22 00        027222.40
        Z,$R                                                          11.22 00        027223.00
        Z,$X1                                                         21.22 00        027223.40
        SV,$X0,122DMP                                              31324.01 30        027224.00
        SV,$X0,$R                                                     11.01 30        027224.40
        SV,$X0,$X1                                                    21.01 30        027225.00
        KV,$X0,122DMP                                              31324.00 90        027225.40
        BXE,$+1.32                                                 27227.72 C2        027226.00
        SIC,SEN                                                     1310.00 80        027226.40
        B,SERS             -SV ABOVE BIT TO EXT MEM FAILED.         1304.10 00        027227.00

        KV,$X0,$R                                                     11.00 90        027227.40
        BXE,$+1.32                                                 27231.72 C2        027230.00
        SIC,SEN                                                     1310.00 80        027230.40
        B,SERS             -SV ABOVE BIT TO INT MEM FAILED.         1304.10 00        027231.00

        KV,$X0,$X1                                                    21.00 90        027231.40
        BXE,$+1.32                                                 27233.72 C2        027232.00
        SIC,SEN                                                     1310.00 80        027232.40
        B,SERS             -SV ABOVE BIT TO IX CORE STG FAILED.     1304.10 00        027233.00
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        LX,$X0,BIT8          -CHECK SV BIT 08 TO 3 MEMORIES.        33341.00 10        027233.40
        Z,I22DMP                                                   31324.22 00        027234.00
        Z,$R                                                          11.22 00        027234.40
        Z,$X1                                                         21.22 00        027235.00
        SV,$X0,I22DMP                                              31324.01 30        027235.40
        SV,$X0,$R                                                     11.01 30        027236.00
        SV,$X0,$X1                                                    21.01 30        027236.40
        KV,$X0,I22DMP                                              31324.00 90        027237.00
        BXE,$+1.32                                                 27241.32 C2        027237.40
        SIC,SEN                                                     1310.00 80        027240.00
        B,SERS               -SV ABOVE BIT TO EXT MEM FAILED.       1304.10 00        027240.40
                                                                         -
        KV,$X0,$R                                                     11.00 90        027241.00
        BXE,$+1.32                                                 27243.32 C2        027241.40
        SIC,SEN                                                     1310.00 80        027242.00
        B,SERS               -SV ABOVE BIT TO INT MEM FAILED.       1304.10 00        027242.40
                                                                         -
        KV,$X0,$X1                                                    21.00 90        027243.00
        BXE,$+1.32                                                 27245.32 C2        027243.40
        SIC,SEN                                                     1310.00 80        027244.00
        B,SERS               -SV ABOVE BIT TO IX CORE STG FAILED.   1304.10 00        027244.40
                                                                         -
        B,$+1.0                                                    27246.10 00        027245.00
        BD,I223                                                    27210.44 00        027245.40
        SIC,SEN0+.32                                                1311.40 80        027246.00
        B,SSW                -TO SSIP.                              1301.10 00        027246.40
        BD,$+.32                                                   27247.44 00        027247.00
                                                                         -
        LX,$X13,IC222        -UPDATE CONTINUITY CHECK.             31251.32 10        027247.40
        V+,$X13,BIT2                                               33333.32 B0        027250.00
        SX,$X13,IC222                                              31251.33 10        027250.40
                                                                         -
I224    LX,$X0,BIT9          -CHECK SV BIT 09 TO 3 MEMORIES.       33342.00 10        027251.00
        Z,I22DMP                                                   31324.22 00        027251.40
        Z,$R                                                          11.22 00        027252.00
        Z,$X1                                                         21.22 00        027252.40
        SV,$X0,I22DMP                                              31324.01 30        027253.00
        SV,$X0,$R                                                     11.01 30        027253.40
        SV,$X0,$X1                                                    21.01 30        027254.00
        KV,$X0,I22DMP                                              31324.00 90        027254.40
        BXE,$+1.32                                                 27256.72 C2        027255.00
        SIC,SEN                                                     1310.00 80        027255.40
        B,SERS               -SV ABOVE BIT TO EXT MEM FAILED.       1304.10 00        027256.00
                                                                         -
        KV,$X0,$R                                                     11.00 90        027256.40
        BXE,$+1.32                                                 27260.72 C2        027257.00
        SIC,SEN                                                     1310.00 80        027257.40
        B,SERS               -SV ABOVE BIT TO INT MEM FAILED.       1304.10 00        027260.00
                                                                         -
        KV,$X0,$X1                                                    21.00 90        027260.40
        BXE,$+1.32                                                 27262.72 C2        027261.00
        SIC,SEN                                                     1310.00 80        027261.40
        B,SERS               -SV ABOVE BIT TO IX CORE STG FAILED.   1304.10 00        027262.00
                                                                         -
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LX,$X0,BIT10        -CHECK SV BIT 10 TO 3 MEMORIES.        33343.00 10        027262.40
Z,I22DMP                                                   31324.22 00        027263.00
Z,$R                                                          11.22 00        027263.40
Z,$X1                                                         21.22 00        027264.00
SV,$X0,I22DMP                                              31324.01 30        027264.40
SV,$X0,$R                                                     11.01 30        027265.00
SV,$X0,$X1                                                    21.01 30        027265.40
KV,$X0,I22DMP                                              31324.00 90        027266.00
BXE,$+1.32                                                 27270.32 C2        027266.40
SIC,SEN                                                     1310.00 80        027267.00
B,SERS              -SV ABOVE BIT TO EXT MEM FAILED.        1304.10 00        027267.40

KV,$X0,$R                                                     11.00 90        027270.00
BXE,$+1.32                                                 27272.32 C2        027270.40
SIC,SEN                                                     1310.00 80        027271.00
B,SERS              -SV ABOVE BIT TO INT MEM FAILED.        1304.10 00        027271.40

KV,$X0,$X1                                                    21.00 90        027272.00
BXE,$+1.32                                                 27274.32 C2        027272.40
SIC,SEN                                                     1310.00 80        027273.00
B,SERS              -SV ABOVE BIT TO IX CORE STG FAILED.    1304.10 00        027273.40

LX,$X0,BIT11        -CHECK SV BIT 11 TO 3 MEMORIES.        33344.00 10        027274.00
Z,I22DMP                                                   31324.22 00        027274.40
Z,$R                                                          11.22 00        027275.00
Z,$X1                                                         21.22 00        027275.40
SV,$X0,I22DMP                                              31324.01 30        027276.00
SV,$X0,$R                                                     11.01 30        027276.40
SV,$X0,$X1                                                    21.01 30        027277.00
KV,$X0,I22DMP                                              31324.00 90        027277.40
BXE,$+1.32                                                 27301.72 C2        027300.00
SIC,SEN                                                     1310.00 80        027300.40
B,SERS              -SV ABOVE BIT TO EXT MEM FAILED.        1304.10 00        027301.00

KV,$X0,$R                                                     11.00 90        027301.40
BXE,$+1.32                                                 27303.72 C2        027302.00
SIC,SEN                                                     1310.00 80        027302.40
B,SERS              -SV ABOVE BIT TO INT MEM FAILED.        1304.10 00        027303.00

KV,$X0,$X1                                                    21.00 90        027303.40
BXE,$+1.32                                                 27305.72 C2        027304.00
SIC,SEN                                                     1310.00 80        027304.40
B,SERS              -SV ABOVE BIT TO IX CORE STG FAILED.    1304.10 00        027305.00

B,$+1.0                                                    27306.50 00        027305.40
BD,I224                                                    27251.04 00        027306.00
SIC,SEN0+.32                                                1311.40 80        027306.40
B,SSW               -TO SSIP.                               1301.10 00        027307.00
BD,$+.32                                                   27310.04 00        027307.40

LX,$X13,IC222       -UPDATE CONTINUITY CHECK.             31251.32 10        027310.00
V+,$X13,BIT3                                               33334.32 B0        027310.40
SX,$X13,IC222                                              31251.33 10        027311.00
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 1225   LX,$X0,BIT12        -CHECK SV BIT 12 TO 3 MEMORIES.         33345.00 10       027311.40
        Z,122DMP                                                   31324.22 00       027312.00
        Z,$R                                                          11.22 00       027312.40
        Z,$X1                                                         21.22 00       027313.00
        SV,$X0,122DMP                                              31324.01 30       027313.40
        SV,$X0,$R                                                     11.01 30       027314.00
        SV,$X0,$X1                                                    21.01 30       027314.40
        KV,$X0,122DMP                                              31324.00 90       027315.00
        BXE,$+1.32                                                 27317.32 C2       027315.40
        SIC,SEN                                                     1310.00 80       027316.00
        B,SERS              -SV ABOVE BIT TO EXT MEM FAILED.        1304.10 00       027316.40

        KV,$X0,$R                                                     11.00 90       027317.00
        BXE,$+1.32                                                 27321.32 C2       027317.40
        SIC,SEN                                                     1310.00 80       027320.00
        B,SERS              -SV ABOVE BIT TO INT MEM FAILED.        1304.10 00       027320.40

        KV,$X0,$X1                                                    21.00 90       027321.00
        BXE,$+1.32                                                 27323.32 C2       027321.40
        SIC,SEN                                                     1310.00 80       027322.00
        B,SERS              -SV ABOVE BIT TO IX CORE STG FAILED.    1304.10 00       027322.40

        LX,$X0,BIT13        -CHECK SV BIT 13 TO 3 MEMORIES.         33346.00 10       027323.00
        Z,122DMP                                                   31324.22 00       027323.40
        Z,$R                                                          11.22 00       027324.00
        Z,$X1                                                         21.22 00       027324.40
        SV,$X0,122DMP                                              31324.01 30       027325.00
        SV,$X0,$R                                                     11.01 30       027325.40
        SV,$X0,$X1                                                    21.01 30       027326.00
        KV,$X0,122DMP                                              31324.00 90       027326.40
        BXE,$+1.32                                                 27330.72 C2       027327.00
        SIC,SEN                                                     1310.00 80       027327.40
        B,SERS              -SV ABOVE BIT TO EXT MEM FAILED.        1304.10 00       027330.00

        KV,$X0,$R                                                     11.00 90       027330.40
        BXE,$+1.32                                                 27332.72 C2       027331.00
        SIC,SEN                                                     1310.00 80       027331.40
        B,SERS              -SV ABOVE BIT TO INT MEM FAILED.        1304.10 00       027332.00

        KV,$X0,$X1                                                    21.00 90       027332.40
        BXE,$+1.32                                                 27334.72 C2       027333.00
        SIC,SEN                                                     1310.00 80       027333.40
        B,SERS              -SV ABOVE BIT TO IX CORE STG FAILED.    1304.10 00       027334.00
```

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        LX,$X0,BIT14      -CHECK SV BIT 14 TO 3 MEMORIES.          33347.00 10          027334.40
        Z,I22DMP                                                   31324.22 00          027335.00
        Z,$R                                                          11.22 00          027335.40
        Z,$X1                                                         21.22 00          027336.00
        SV,$X0,I22DMP                                              31324.01 30          027336.40
        SV,$X0,$R                                                     11.01 30          027337.00
        SV,$X0,$X1                                                    21.01 30          027337.40
        KV,$X0,I22DMP                                              31324.00 90          027340.00
        BXE,$+1.32                                                 27342.32 C2          027340.40
        SIC,SEN                                                     1310.00 80          027341.00
        B,SERS            -SV ABOVE BIT TO EXT MEM FAILED.          1304.10 00          027341.40

        KV,$X0,$R                                                     11.00 90          027342.00
        BXE,$+1.32                                                 27344.32 C2          027342.40
        SIC,SEN                                                     1310.00 80          027343.00
        B,SERS            -SV ABOVE BIT TO INT MEM FAILED.          1304.10 00          027343.40

        KV,$X0,$X1                                                    21.00 90          027344.00
        BXE,$+1.32                                                 27346.32 C2          027344.40
        SIC,SEN                                                     1310.00 80          027345.00
        B,SERS            -SV ABOVE BIT TO IX CORE STG FAILED.      1304.10 00          027345.40

        B,$+1.0                                                    27347.10 00          027346.00
        BD,I225                                                    27311.44 00          027346.40
        SIC,SEN0+.32                                                1311.40 80          027347.00
        B,SSW             -TO SSIP.                                 1301.10 00          027347.40
        BD,$+.32                                                   27350.44 00          027350.00

        LX,$X13,IC222     -UPDATE CONTINUITY CHECK.                31251.32 10          027350.40
        V+,$X13,BIT4                                               33335.32 B0          027351.00
        SX,$X13,IC222                                              31251.33 10          027351.40

1226    LX,$X0,BIT15      -CHECK SV BIT 15 TO 3 MEMORIES.          33350.00 10          027352.00
        Z,I22DMP                                                   31324.22 00          027352.40
        Z,$R                                                          11.22 00          027353.00
        Z,$X1                                                         21.22 00          027353.40
        SV,$X0,I22DMP                                              31324.01 30          027354.00
        SV,$X0,$R                                                     11.01 30          027354.40
        SV,$X0,$X1                                                    21.01 30          027355.00
        KV,$X0,I22DMP                                              31324.00 90          027355.40
        BXE,$+1.32                                                 27357.72 C2          027356.00
        SIC,SEN                                                     1310.00 80          027356.40
        B,SERS            -SV ABOVE BIT TO EXT MEM FAILED.          1304.10 00          027357.00

        KV,$X0,$R                                                     11.00 90          027357.40
        BXE,$+1.32                                                 27361.72 C2          027360.00
        SIC,SEN                                                     1310.00 80          027360.40
        B,SERS            -SV ABOVE BIT TO INT MEM FAILED.          1304.10 00          027361.00

        KV,$X0,$X1                                                    21.00 90          027361.40
        BXE,$+1.32                                                 27363.72 C2          027362.00
        SIC,SEN                                                     1310.00 80          027362.40
        B,SERS            -SV ABOVE BIT TO IX CORE STG FAILED.      1304.10 00          027363.00
```

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LX,$X0,BIT16        -CHECK SV BIT 16 TO 3 MEMORIES.      33351.00 10      027363.40
Z,I22DMP                                                 31324.22 00      027364.00
Z,$R                                                        11.22 00      027364.40
Z,$X1                                                       21.22 00      027365.00
SV,$X0,I22DMP                                            31324.01 30      027365.40
SV,$X0,$R                                                   11.01 30      027366.00
SV,$X0,$X1                                                  21.01 30      027366.40
KV,$X0,I22DMP                                            31324.00 90      027367.00
BXE,$+1.32                                               27371.32 C2      027367.40
SIC,SEN                                                   1310.00 80      027370.00
B,SERS              -SV ABOVE BIT TO EXT MEM FAILED.      1304.10 00      027370.40

KV,$X0,$R                                                   11.00 90      027371.00
BXE,$+1.32                                               27373.32 C2      027371.40
SIC,SEN                                                   1310.00 80      027372.00
B,SERS              -SV ABOVE BIT TO INT MEM FAILED.      1304.10 00      027372.40

KV,$X0,$X1                                                  21.00 90      027373.00
BXE,$+1.32                                               27375.32 C2      027373.40
SIC,SEN                                                   1310.00 80      027374.00
B,SERS              -SV ABOVE BIT TO IX CORE STG FAILED.  1304.10 00      027374.40

LX,$X0,BIT17        -CHECK SV BIT 17 TO 3 MEMORIES.      33352.00 10      027375.00
Z,I22DMP                                                 31324.22 00      027375.40
Z,$R                                                        11.22 00      027376.00
Z,$X1                                                       21.22 00      027376.40
SV,$X0,I22DMP                                            31324.01 30      027377.00
SV,$X0,$R                                                   11.01 30      027377.40
SV,$X0,$X1                                                  21.01 30      027400.00
KV,$X0,I22DMP                                            31324.00 90      027400.40
BXE,$+1.32                                               27402.72 C2      027401.00
SIC,SEN                                                   1310.00 80      027401.40
B,SERS              -SV ABOVE BIT TO EXT MEM FAILED.      1304.10 00      027402.00

KV,$X0,$R                                                   11.00 90      027402.40
BXE,$+1.32                                               27404.72 C2      027403.00
SIC,SEN                                                   1310.00 80      027403.40
B,SERS              -SV ABOVE BIT TO INT MEM FAILED.      1304.10 00      027404.00

KV,$X0,$X1                                                  21.00 90      027404.40
BXE,$+1.32                                               27406.72 C2      027405.00
SIC,SEN                                                   1310.00 80      027405.40
B,SERS              -SV ABOVE BIT TO IX CORE STG FAILED.  1304.10 00      027406.00

B,$+1.0                                                  27407.50 00      027406.40
BD,I226                                                  27352.04 00      027407.00
SIC,SEN0+.32                                             1311.40 80      027407.40
B,SSW               -TO SSIP.                             1301.10 00      027410.00
BD,$+.32                                                 27411.04 00      027410.40

LX,$X13,IC222       -UPDATE CONTINUITY CHECK.            31251.32 10      027411.00
V+,$X13,BIT5                                             33336.32 B0      027411.40
SX,$X13,IC222                                            31251.33 10      027412.00
```

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1227    LX,$X0,BIT18        -CHECK SV BIT 18 TO 3 MEMORIES.      33353.00 10    027412.40
        Z,122DMP                .                                31324.22 00    027413.00
        Z,$R                                                        11.22 00    027413.40
        Z,$X1                                                       21.22 00    027414.00
        SV,$X0,122DMP                                            31324.01 30    027414.40
        SV,$X0,$R                                                   11.01 30    027415.00
        SV,$X0,$X1                                                  21.01 30    027415.40
        KV,$X0,122DMP                                            31324.00 90    027416.00
        BXE,$+1.32                                               27420.32 C2    027416.40
        SIC,SEN                                                   1310.00 80    027417.00
        B,SERS              -SV ABOVE BIT TO EXT MEM FAILED.      1304.10 00    027417.40

        KV,$X0,$R                                                   11.00 90    027420.00
        BXE,$+1.32                                               27422.32 C2    027420.40
        SIC,SEN                                                   1310.00 80    027421.00
        B,SERS              -SV ABOVE BIT TO INT MEM FAILED.      1304.10 00    027421.40

        KV,$X0,$X1                                                  21.00 90    027422.00
        BXE,$+1.32                                               27424.32 C2    027422.40
        SIC,SEN                                                   1310.00 80    027423.00
        B,SERS              -SV ABOVE BIT TO IX CORE STG FAILED.  1304.10 00    027423.40

        LX,$X0,BIT19        -CHECK SV BIT 19 TO 3 MEMORIES.      33354.00 10    027424.00
        Z,122DMP                                                 31324.22 00    027424.40
        Z,$R                                                        11.22 00    027425.00
        Z,$X1                                                       21.22 00    027425.40
        SV,$X0,122DMP                                            31324.01 30    027426.00
        SV,$X0,$R                                                   11.01 30    027426.40
        SV,$X0,$X1                                                  21.01 30    027427.00
        KV,$X0,122DMP                                            31324.00 90    027427.40
        BXE,$+1.32                                               27431.72 C2    027430.00
        SIC,SEN                                                   1310.00 80    027430.40
        B,SERS              -SV ABOVE BIT TO EXT MEM FAILED.      1304.10 00    027431.00

        KV,$X0,$R                                                   11.00 90    027431.40
        BXE,$+1.32                                               27433.72 C2    027432.00
        SIC,SEN                                                   1310.00 80    027432.40
        B,SERS              -SV ABOVE BIT TO INT MEM FAILED.      1304.10 00    027433.00

        KV,$X0,$X1                                                  21.00 90    027433.40
        BXE,$+1.32                                               27435.72 C2    027434.00
        SIC,SEN                                                   1310.00 80    027434.40
        B,SERS              -SV ABOVE BIT TO IX CORE STG FAILED.  1304.10 00    027435.00
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          LX,$X0,BIT20        -CHECK SV BIT 20 TO 3 MEMORIES.        33355.00 10        027435.40
          Z,I22DMP                                                  31324.22 00        027436.00
          Z,$R                                                         11.22 00        027436.40
          Z,$X1                                                        21.22 00        027437.00
          SV,$X0,I22DMP                                             31324.01 30        027437.40
          SV,$X0,$R                                                    11.01 30        027440.00
          SV,$X0,$X1                                                   21.01 30        027440.40
          KV,$X0,I22DMP                                             31324.00 90        027441.00
          BXE,$+1.32                                                27443.32 C2        027441.40
          SIC,SEN                                                    1310.00 80        027442.00
          B,SERS              -SV ABOVE BIT TO EXT MEM FAILED.        1304.10 00        027442.40

          KV,$X0,$R                                                    11.00 90        027443.00
          BXE,$+1.32                                                27445.32 C2        027443.40
          SIC,SEN                                                    1310.00 80        027444.00
          B,SERS              -SV ABOVE BIT TO INT MEM FAILED.        1304.10 00        027444.40

          KV,$X0,$X1                                                   21.00 90        027445.00
          BXE,$+1.32                                                27447.32 C2        027445.40
          SIC,SEN                                                    1310.00 80        027446.00
          B,SERS              -SV ABOVE BIT TO IX CORE STG FAILED.    1304.10 00        027446.40

          B,$+1.0                                                   27450.10 00        027447.00
          BD,I227                                                   27412.44 00        027447.40
          SIC,SEN0+.32                                                1311.40 80        027450.00
          B,SSW               -TO SSIP.                               1301.10 00        027450.40
          BD,$+.32                                                  27451.44 00        027451.00

          LX,$X13,IC222       -UPDATE CONTINUITY CHECK.              31251.32 10        027451.40
          V+,$X13,BIT6                                              33337.32 B0        027452.00
          SX,$X13,IC222                                             31251.33 10        027452.40

   I228   LX,$X0,BIT21        -CHECK SV BIT 21 TO 3 MEMORIES.        33356.00 10        027453.00
          Z,I22DMP                                                  31324.22 00        027453.40
          Z,$R                                                         11.22 00        027454.00
          Z,$X1                                                        21.22 00        027454.40
          SV,$X0,I22DMP                                             31324.01 30        027455.00
          SV,$X0,$R                                                    11.01 30        027455.40
          SV,$X0,$X1                                                   21.01 30        027456.00
          KV,$X0,I22DMP                                             31324.00 90        027456.40
          BXE,$+1.32                                                27460.72 C2        027457.00
          SIC,SEN                                                    1310.00 80        027457.40
          B,SERS              -SV ABOVE BIT TO EXT MEM FAILED.        1304.10 00        027460.00

          KV,$X0,$R                                                    11.00 90        027460.40
          BXE,$+1.32                                                27462.72 C2        027461.00
          SIC,SEN                                                    1310.00 80        027461.40
          B,SERS              -SV ABOVE BIT TO INT MEM FAILED.        1304.10 00        027462.00

          KV,$X0,$X1                                                   21.00 90        027462.40
          BXE,$+1.32                                                27464.72 C2        027463.00
          SIC,SEN                                                    1310.00 80        027463.40
          B,SERS              -SV ABOVE BIT TO IX CORE STG FAILED.    1304.10 00        027464.00
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LX,$X0,BIT22           -CHECK SV BIT 22 TO 3 MEMORIES.       33357.00 10      027464.40
Z,I22DMP                                                     31324.22 00      027465.40
Z,$R                                                            11.22 00      027465.40
Z,$X1                                                           21.22 00      027466.00
SV,$X0,I22DMP                                                31324.01 30      027466.40
SV,$X0,$R                                                       11.01 30      027467.00
SV,$X0,$X1                                                      21.01 30      027467.40
KV,$X0,I22DMP                                                31324.00 90      027470.00
BXE,$+1.32                                                   27472.32 C2      027470.40
SIC,SEN                                                       1310.00 80      027471.00
B,SERS                 -SV ABOVE BIT TO EXT MEM FAILED.       1304.10 00      027471.40

KV,$X0,$R                                                       11.00 90      027472.00
BXE,$+1.32                                                   27474.32 C2      027472.40
SIC,SEN                                                       1310.00 80      027473.00
B,SERS                 -SV ABOVE BIT TO INT MEM FAILED.       1304.10 00      027473.40

KV,$X0,$X1                                                      21.00 90      027474.00
BXE,$+1.32                                                   27476.32 C2      027474.40
SIC,SEN                                                       1310.00 80      027475.00
B,SERS                 -SV ABOVE BIT TO IX CORE STG FAILED.   1304.10 00      027475.40

LX,$X0,BIT23           -CHECK SV BIT 23 TO 3 MEMORIES.       33360.00 10      027476.00
Z,I22DMP                                                     31324.22 00      027476.40
Z,$R                                                            11.22 00      027477.00
Z,$X1                                                           21.22 00      027477.40
SV,$X0,I22DMP                                                31324.01 30      027500.00
SV,$X0,$R                                                       11.01 30      027500.40
SV,$X0,$X1                                                      21.01 30      027501.00
KV,$X0,I22DMP                                                31324.00 90      027501.40
BXE,$+1.32                                                   27503.72 C2      027502.00
SIC,SEN                                                       1310.00 80      027502.40
B,SERS                 -SV ABOVE BIT TO EXT MEM FAILED.       1304.10 00      027503.00

KV,$X0,$R                                                       11.00 90      027503.40
BXE,$+1.32                                                   27505.72 C2      027504.00
SIC,SEN                                                       1310.00 80      027504.40
B,SERS                 -SV ABOVE BIT TO INT MEM FAILED.       1304.10 00      027505.00

KV,$X0,$X1                                                      21.00 90      027505.40
BXE,$+1.32                                                   27507.72 C2      027506.00
SIC,SEN                                                       1310.00 80      027506.40
B,SERS                 -SV ABOVE BIT TO IX CORE STG FAILED.   1304.10 00      027507.00

B,$+1.0                                                      27510.50 00      027507.40
BD,I228                                                      27453.04 00      027510.00
SIC,SEN0+.32                                                 1311.40 80      027510.40
B,SSW                  -TO SSIP.                              1301.10 00      027511.00
BD,$+.32                                                     27512.04 00      027511.40

LX,$X13,IC222          -UPDATE CONTINUITY CHECK.             31251.32 10      027512.00
V+,$X13,BIT7                                                 33340.32 B0      027512.40
SX,$X13,IC222                                                31251.33 10      027513.00
```

```
1229      LX,$X0,IBIT23      -CHECK SV BIT 24 TO 3 MEMORIES.         31302.00 10        027513.40
          Z,I22DMP                                                  31324.22 00        027514.00
          Z,$R                                                         11.22 00        027514.40
          Z,$X1                                                        21.22 00        027515.00
          SV,$X0,I22DMP                                             31324.01 30        027515.40
          SV,$X0,$R                                                    11.01 30        027516.00
          SV,$X0,$X1                                                   21.01 30        027516.40
          KV,$X0,I22DMP                                             31324.00 90        027517.00
          BXE,$+1.32                                                27521.32 C2        027517.40
          SIC,SEN                                                   1310.00 80        027520.00
          B,SERS             -SV ABOVE BIT TO EXT MEM FAILED.        1304.10 00        027520.40

          KV,$X0,$R                                                    11.00 90        027521.00
          BXE,$+1.32                                                27523.32 C2        027521.40
          SIC,SEN                                                   1310.00 80        027522.00
          B,SERS             -SV ABOVE BIT TO INT MEM FAILED.        1304.10 00        027522.40

          KV,$X0,$X1                                                   21.00 90        027523.00
          BXE,$+1.32                                                27525.32 C2        027523.40
          SIC,SEN                                                   1310.00 80        027524.00
          B,SERS             -SV ABOVE BIT TO IX CORE STG FAILED.    1304.10 00        027524.40

          B,$+1.0                                                   27526.10 00        027525.00
          BD,I229                                                   27513.44 00        027525.40
          BD,$+.32                                                  27526.44 00        027526.00
          SIC,SEN0+.32                                              1311.40 80        027526.40
          B,SSW              -TO SSIP.                              1301.10 00        027527.00
          BD,$+.32                                                  27530.04 00        027527.40

          LX,$X13,IC222      -UPDATE CONTINUITY CHECK.              31251.32 10        027530.00
          V+,$X13,BIT8                                              33341.32 B0        027530.40
          SX,$X13,IC222                                             31251.33 10        027531.00

12210     LX,$X0,IBIT0       -CHECK SVA TO 3 MEMS, DATA BIT 0.      31253.00 10        027531.40
          LX,$X1,I22K1                                              31303.02 10        027532.00
          SX,$X1,I22WRK                                             31322.03 10        027532.40
          SVA,$X0,I22WRK                                            31322.01 D0        027533.00
          SX,$X1,$R                                                    11.03 10        027533.40
          SVA,$X0,$R                                                   11.01 D0        027534.00
          SVA,$X0,$X1                                                  21.01 D0        027534.40
          NOP                                                          0.30 00        027535.00
          NOP                                                          0.30 00        027535.40
          NOP                                                          0.30 00        027536.00
          KV,$X0,I22WRK                                             31322.00 90        027536.40
          BXE,$+1.32                                                27540.72 C2        027537.00
          SIC,SEN                                                   1310.00 80        027537.40
          B,SERS             -SVA ABOVE BIT TO EXT MEM FAILED.       1304.10 00        027540.00

          KV,$X0,$R                                                    11.00 90        027540.40
          BXE,$+1.32                                                27542.72 C2        027541.00
          SIC,SEN                                                   1310.00 80        027541.40
          B,SERS             -SVA ABOVE BIT TO INT MEM FAILED.       1304.10 00        027542.00

          KV,$X0,$X1                                                   21.00 90        027542.40
          BXE,$+1.32                                                27544.72 C2        027543.00
          SIC,SEN                                                   1310.00 80        027543.40
          B,SERS             -SVA ABOVE BIT TO IX CORE STG FAILED.   1304.10 00        027544.00
```

```
        LX,$X0,IBIT1      -CHECK SVA TO 3 MEMS, DATA BIT 1.    31254.00 10    027544.40
        SX,$X1,I22WRK                                          31322.03 10    027545.00
        SVA,$X0,I22WRK                                         31322.01 D0    027545.40
        SX,$X1,$R                                              11.03 10       027546.00
        SVA,$X0,$R                                             11.01 D0       027546.40
        SVA,$X0,$X1                                            21.01 D0       027547.00
        NOP                                                    0.30 00        027547.40
        NOP                                                    0.30 00        027550.00
        NOP                                                    0.30 00        027550.40
        KV,$X0,I22WRK                                          31322.00 90    027551.00
        BXE,$+1.32                                             27553.32 C2    027551.40
        SIC,SEN                                                1310.00 80     027552.00
        B,SERS            -SVA ABOVE BIT TO EXT MEM FAILED.    1304.10 00     027552.40

        KV,$X0,$R                                              11.00 90       027553.00
        BXE,$+1.32                                             27555.32 C2    027553.40
        SIC,SEN                                                1310.00 80     027554.00
        B,SERS            -SVA ABOVE BIT TO INT MEM FAILED.    1304.10 00     027554.40

        KV,$X0,$X1                                             21.00 90       027555.00
        BXE,$+1.32                                             27557.32 C2    027555.40
        SIC,SEN                                                1310.00 80     027556.00
        B,SERS            -SVA ABOVE BIT TO IX CORE STG FAILED. 1304.10 00    027556.40

        B,$+1.0                                                27560.10 00    027557.00
        BD,I2210                                               27531.44 00    027557.40
        SIC,SEN0+.32                                           1311.40 80     027560.00
        B,SSW             -TO SSIP.                            1301.10 00     027560.40
        BD,$+.32                                               27561.44 00    027561.00

        LX,$X13,IC222     -UPDATE CONTINUITY CHECK.            31251.32 10    027561.40
        V+,$X13,BIT9                                           33342.32 B0    027562.00
        SX,$X13,IC222                                          31251.33 10    027562.40

I2211   LX,$X0,IBIT2      -CHECK SVA TO 3 MEMS, DATA BIT 2.    31255.00 10    027563.00
        LX,$X1,I22K1                                           31303.02 10    027563.40
        SX,$X1,I22WRK                                          31322.03 10    027564.00
        SVA,$X0,I22WRK                                         31322.01 D0    027564.40
        SX,$X1,$R                                              11.03 10       027565.00
        SVA,$X0,$R                                             11.01 D0       027565.40
        SVA,$X0,$X1                                            21.01 D0       027566.00
        NOP                                                    0.30 00        027566.40
        NOP                                                    0.30 00        027567.00
        NOP                                                    0.30 00        027567.40
        KV,$X0,I22WRK                                          31322.00 90    027570.00
        BXE,$+1.32                                             27572.32 C2    027570.40
        SIC,SEN                                                1310.00 80     027571.00
        B,SERS            -SVA ABOVE BIT TO EXT MEM FAILED.    1304.10 00     027571.40

        KV,$X0,$R                                              11.00 90       027572.00
        BXE,$+1.32                                             27574.32 C2    027572.40
        SIC,SEN                                                1310.00 80     027573.00
        B,SERS            -SVA ABOVE BIT TO INT MEM FAILED.    1304.10 00     027573.40

        KV,$X0,$X1                                             21.00 90       027574.00
        BXE,$+1.32                                             27576.32 C2    027574.40
        SIC,SEN                                                1310.00 80     027575.00
        B,SERS            -SVA ABOVE BIT TO IX CORE STG FAILED. 1304.10 00    027575.40
```

```
        LX,$X0,IBIT3          -CHECK SVA TO 3 MEMS, DATA BIT 3.        31256.00 10        027576.00
        LX,$X1,I22K1                                                   31303.02 10        027576.40
        SX,$X1,I22WRK                                                  31322.03 10        027577.00
        SVA,$X0,I22WRK                                                 31322.01 D0        027577.40
        SX,$X1,$R                                                         11.03 10        027600.00
        SVA,$X0,$R                                                        11.01 D0        027600.40
        SVA,$X0,$X1                                                       21.01 D0        027601.00
        NOP                                                               0.30 00        027601.40
        NOP                                                               0.30 00        027602.00
        NOP                                                               0.30 00        027602.40
        KV,$X0,I22WRK                                                  31322.00 90        027603.00
        BXE,$+1.32                                                    27605.32 C2        027603.40
        SIC,SEN                                                          1310.00 80        027604.00
        B,SERS               -SVA ABOVE BIT TO EXT MEM FAILED.          1304.10 00        027604.40
                                                                                -

        KV,$X0,$R                                                        11.00 90        027605.00
        BXE,$+1.32                                                    27607.32 C2        027605.40
        SIC,SEN                                                          1310.00 80        027606.00
        B,SERS               -SVA ABOVE BIT TO INT MEM FAILED.          1304.10 00        027606.40
        KV,$X0,$X1                                                       21.00 90        027607.00
        BXE,$+1.32                                                    27611.32 C2        027607.40
        SIC,SEN                                                          1310.00 80        027610.00
        B,SERS               -SVA ABOVE BIT TO IX CORE STG FAILED.      1304.10 00        027610.40
                                                                                -

        B,$+1.0                                                       27612.10 00        027611.00
        BD,I2211                                                      27563.04 00        027611.40
        SIC,SEN0+.32                                                    1311.40 80        027612.00
        B,SSW                -TO SSIP.                                  1301.10 00        027612.40
        BD,$+.32                                                      27613.44 00        027613.00
                                                                                -

        LX,$X13,IC222        -UPDATE CONTINUITY CHECK.                 31251.32 10        027613.40
        V+,$X13,BIT10                                                 33343.32 B0        027614.00
        SX,$X13,IC222                                                 31251.33 10        027614.40
                                                                                -
12212   LX,$X0,IBIT4          -CHECK SVA TO 3 MEMS, DATA BIT 4.        31257.00 10        027615.00
        LX,$X1,I22K1                                                   31303.02 10        027615.40
        SX,$X1,I22WRK                                                  31322.03 10        027616.00
        SVA,$X0,I22WRK                                                 31322.01 D0        027616.40
        SX,$X1,$R                                                         11.03 10        027617.00
        SVA,$X0,$R                                                        11.01 D0        027617.40
        SVA,$X0,$X1                                                       21.01 D0        027620.00
        NOP                                                               0.30 00        027620.40
        NOP                                                               0.30 00        027621.00
        NOP                                                               0.30 00        027621.40
        KV,$X0,I22WRK                                                  31322.00 90        027622.00
        BXE,$+1.32                                                    27624.32 C2        027622.40
        SIC,SEN                                                          1310.00 80        027623.00
        B,SERS               -SVA ABOVE BIT TO EXT MEM FAILED.          1304.10 00        027623.40
                                                                                -

        KV,$X0,$R                                                        11.00 90        027624.00
        BXE,$+1.32                                                    27626.32 C2        027624.40
        SIC,SEN                                                          1310.00 80        027625.00
        B,SERS               -SVA ABOVE BIT TO INT MEM FAILED.          1304.10 00        027625.40
                                                                                -

        KV,$X0,$X1                                                       21.00 90        027626.00
        BXE,$+1.32                                                    27630.32 C2        027626.40
        SIC,SEN                                                          1310.00 80        027627.00
        B,SERS               -SVA ABOVE BIT TO IX CORE STG FAILED.      1304.10 00        027627.40
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```
          LX,$X0,IBIT5          -CHECK SVA TO 3 MEMS, DATA BIT 5.        31260.00 10        027630.00
          LX,$X1,I22K1                                                   31303.02 10        027630.40
          SX,$X1,I22WRK                                                  31322.03 10        027631.00
          SVA,$X0,I22WRK                                                 31322.01 D0        027631.40
          SX,$X1,$R                                                      11.03 10           027632.00
          SVA,$X0,$R                                                     11.01 D0           027632.40
          SVA,$X0,$X1                                                    21.01 D0           027633.00
          NOP                                                            0.30 00            027633.40
          NOP                                                            0.30 00            027634.00
          NOP                                                            0.30 00            027634.40
          KV,$X0,I22WRK                                                  31322.00 90        027635.00
          BXE,$+1.32                                                     27637.32 C2        027635.40
          SIC,SEN                                                        1310.00 80         027636.00
          B,SERS                -SVA ABOVE BIT TO EXT MEM FAILED.        1304.10 00         027636.40

          KV,$X0,$R                                                      11.00 90           027637.00
          BXE,$+1.32                                                     27641.32 C2        027637.40
          SIC,SEN                                                        1310.00 80         027640.00
          B,SERS                -SVA ABOVE BIT TO INT MEM FAILED.        1304.10 00         027640.40
          KV,$X0,$X1                                                     21.00 90           027641.00
          BXE,$+1.32                                                     27643.32 C2        027641.40
          SIC,SEN                                                        1310.00 80         027642.00
          B,SERS                -SVA ABOVE BIT TO IX CORE STG FAILED.    1304.10 00         027642.40

          B,$+1.0                                                        27644.10 00        027643.00
          BD,I2212                                                       27615.04 00        027643.40
          SIC,SEN0+.32                                                   1311.40 80         027644.00
          B,SSW                 -TO SSIP.                                1301.10 00         027644.40
          BD,$+.32                                                       27645.44 00        027645.00

          LX,$X13,IC222         -UPDATE CONTINUITY CHECK.                31251.32 10        027645.40
          V+,$X13,BIT11                                                  33344.32 B0        027646.00
          SX,$X13,IC222                                                  31251.33 10        027646.40

12213     LX,$X0,IBIT6          -CHECK SVA TO 3 MEMS, DATA BIT 6.        31261.00 10        027647.00
          LX,$X1,I22K1                                                   31303.02 10        027647.40
          SX,$X1,I22WRK                                                  31322.03 10        027650.00
          SVA,$X0,I22WRK                                                 31322.01 D0        027650.40
          SX,$X1,$R                                                      11.03 10           027651.00
          SVA,$X0,$R                                                     11.01 D0           027651.40
          SVA,$X0,$X1                                                    21.01 D0           027652.00
          NOP                                                            0.30 00            027652.40
          NOP                                                            0.30 00            027653.00
          NOP                                                            0.30 00            027653.40
          KV,$X0,I22WRK                                                  31322.00 90        027654.00
          BXE,$+1.32                                                     27656.32 C2        027654.40
          SIC,SEN                                                        1310.00 80         027655.00
          B,SERS                -SVA ABOVE BIT TO EXT MEM FAILED.        1304.10 00         027655.40

          KV,$X0,$R                                                      11.00 90           027656.00
          BXE,$+1.32                                                     27660.32 C2        027656.40
          SIC,SEN                                                        1310.00 80         027657.00
          B,SERS                -SVA ABOVE BIT TO INT MEM FAILED.        1304.10 00         027657.40

          KV,$X0,$X1                                                     21.00 90           027660.00
          BXE,$+1.32                                                     27662.32 C2        027660.40
          SIC,SEN                                                        1310.00 80         027661.00
          B,SERS                -SVA ABOVE BIT TO IX CORE STG FAILED.    1304.10 00         027661.40
```

```
         LX,$X0,IBIT7       -CHECK SVA TO 3 MEMS, DATA BIT 7.    31262.00 10    027662.00
         LX,$X1,I22K1                                            31303.02 10    027662.40
         SX,$X1,I22WRK                                           31322.03 10    027663.00
         SVA,$X0,I22WRK                                          31322.01 D0    027663.40
         SX,$X1,$R                                                  11.03 10    027664.00
         SVA,$X0,$R                                                 11.01 D0    027664.40
         SVA,$X0,$X1                                                21.01 D0    027665.00
         NOP                                                        0.30 00     027665.40
         NOP                                                        0.30 00     027666.00
         NOP                                                        0.30 00     027666.40
         KV,$X0,I22WRK                                           31322.00 90    027667.00
         BXE,$+1.32                                              27671.32 C2    027667.40
         SIC,SEN                                                  1310.00 80    027670.00
         B,SERS             -SVA ABOVE BIT TO EXT MEM FAILED.     1304.10 00    027670.40

         KV,$X0,$R                                                  11.00 90    027671.00
         BXE,$+1.32                                              27673.32 C2    027671.40
         SIC,SEN                                                  1310.00 80    027672.00
         B,SERS             -SVA ABOVE BIT TO INT MEM FAILED.     1304.10 00    027672.40

         KV,$X0,$X1                                                 21.00 90    027673.00
         BXE,$+1.32                                              27675.32 C2    027673.40
         SIC,SEN                                                  1310.00 80    027674.00
         B,SERS             -SVA ABOVE BIT TO IX CORE STG FAILED. 1304.10 00    027674.40

         B,$+1.0                                                 27676.10 00    027675.00
         BD,I2213                                                27647.04 00    027675.40
         SIC,SEN0+.32                                             1311.40 80    027676.00
         B,SSW              -TO SSIP.                             1301.10 00    027676.40
         BD,$+.32                                                27677.44 00    027677.00

         LX,$X13,IC222      -UPDATE CONTINUITY CHECK.             31251.32 10   027677.40
         V+,$X13,BIT12                                           33345.32 B0    027700.00
         SX,$X13,IC222                                           31251.33 10    027700.40

I2214    LX,$X0,IBIT8       -CHECK SVA TO 3 MEMS, DATA BIT 8.    31263.00 10    027701.00
         LX,$X1,I22K1                                            31303.02 10    027701.40
         SX,$X1,I22WRK                                           31322.03 10    027702.00
         SVA,$X0,I22WRK                                          31322.01 D0    027702.40
         SX,$X1,$R                                                  11.03 10    027703.00
         SVA,$X0,$R                                                 11.01 D0    027703.40
         SVA,$X0,$X1                                                21.01 D0    027704.00
         NOP                                                        0.30 00     027704.40
         NOP                                                        0.30 00     027705.00
         NOP                                                        0.30 00     027705.40
         KV,$X0,I22WRK                                           31322.00 90    027706.00
         BXE,$+1.32                                              27710.32 C2    027706.40
         SIC,SEN                                                  1310.00 80    027707.00
         B,SERS             -SVA ABOVE BIT TO EXT MEM FAILED.     1304.10 00    027707.40

         KV,$X0,$R                                                  11.00 90    027710.00
         BXE,$+1.32                                              27712.32 C2    027710.40
         SIC,SEN                                                  1310.00 80    027711.00
         B,SERS             -SVA ABOVE BIT TO INT MEM FAILED.     1304.10 00    027711.40

         KV,$X0,$X1                                                 21.00 90    027712.00
         BXE,$+1.32                                              27714.32 C2    027712.40
         SIC,SEN                                                  1310.00 80    027713.00
         B,SERS             -SVA ABOVE BIT TO IX CORE STG FAILED. 1304.10 00    027713.40
```

```
          LX,$X0,IBIT9        -CHECK SVA TO 3 MEMS, DATA BIT 9.         31264.00 10        027714.00
          LX,$X1,I22K1                                                  31303.02 10        027714.40
          SX,$X1,I22WRK                                                 31322.03 10        027715.00
          SVA,$X0,I22WRK                                                31322.01 D0        027715.40
          SX,$X1,$R                                                        11.03 10        027716.00
          SVA,$X0,$R                                                       11.01 D0        027716.40
          SVA,$X0,$X1                                                      21.01 D0        027717.00
          NOP                                                               0.30 00        027717.40
          NOP                                                               0.30 00        027720.00
          NOP                                                               0.30 00        027720.40
          KV,$X0,I22WRK                                                 31322.00 90        027721.00
          BXE,$+1.32                                                    27723.32 C2        027721.40
          SIC,SEN                                                        1310.00 80        027722.00
          B,SERS              -SVA ABOVE BIT TO EXT MEM FAILED.          1304.10 00        027722.40

          KV,$X0,$R                                                        11.00 90        027723.00
          BXE,$+1.32                                                    27725.32 C2        027723.40
          SIC,SEN                                                        1310.00 80        027724.00
          B,SERS              -SVA ABOVE BIT TO INT MEM FAILED.          1304.10 00        027724.40

          KV,$X0,$X1                                                       21.00 90        027725.00
          BXE,$+1.32                                                    27727.32 C2        027725.40
          SIC,SEN                                                        1310.00 80        027726.00
          B,SERS              -SVA ABOVE BIT TO IX CORE STG FAILED.      1304.10 00        027726.40

          B,$+1.0                                                       27730.10 00        027727.00
          BD,I2214                                                      27701.04 00        027727.40
          SIC,SEN0+.32                                                   1311.40 80        027730.00
          B,SSW               -TO SSIP.                                  1301.10 00        027730.40
          BD,$+.32                                                      27731.44 00        027731.00

          LX,$X13,IC222       -UPDATE CONTINUITY CHECK.                 31251.32 10        027731.40
          V+,$X13,BIT13                                                 33346.32 B0        027732.00
          SX,$X13,IC222                                                 31251.33 10        027732.40

  I2215   LX,$X0,IBIT10       -CHECK SVA TO 3 MEMS, DATA BIT 10.        31265.00 10        027733.00
          LX,$X1,I22K1                                                  31303.02 10        027733.40
          SX,$X1,I22WRK                                                 31322.03 10        027734.00
          SVA,$X0,I22WRK                                                31322.01 D0        027734.40
          SX,$X1,$R                                                        11.03 10        027735.00
          SVA,$X0,$R                                                       11.01 D0        027735.40
          SVA,$X0,$X1                                                      21.01 D0        027736.00
          NOP                                                               0.30 00        027736.40
          NOP                                                               0.30 00        027737.00
          NOP                                                               0.30 00        027737.40
          KV,$X0,I22WRK                                                 31322.00 90        027740.00
          BXE,$+1.32                                                    27742.32 C2        027740.40
          SIC,SEN                                                        1310.00 80        027741.00
          B,SERS              -SVA ABOVE BIT TO EXT MEM FAILED.          1304.10 00        027741.40

          KV,$X0,$R                                                        11.00 90        027742.00
          BXE,$+1.32                                                    27744.32 C2        027742.40
          SIC,SEN                                                        1310.00 80        027743.00
          B,SERS              -SVA ABOVE BIT TO INT MEM FAILED.          1304.10 00        027743.40

          KV,$X0,$X1                                                       21.00 90        027744.00
          BXE,$+1.32                                                    27746.32 C2        027744.40
          SIC,SEN                                                        1310.00 80        027745.00
          B,SERS              -SVA ABOVE BIT TO IX CORE STG FAILED.      1304.10 00        027745.40
```

```
        LX,$X0,IBIT11      -CHECK SVA TO 3 MEMS, DATA BIT 11.      31266.00 10      027746.00
        LX,$X1,I22K1                                               31303.02 10      027746.40
        SX,$X1,I22WRK                                              31322.03 10      027747.00
        SVA,$X0,I22WRK                                             31322.01 D0      027747.40
        SX,$X1,$R                                                     11.03 10      027750.00
        SVA,$X0,$R                                                    11.01 D0      027750.40
        SVA,$X0,$X1                                                   21.01 D0      027751.00
        NOP                                                           0.30 00       027751.40
        NOP                                                           0.30 00       027752.00
        NOP                                                           0.30 00       027752.40
        KV,$X0,I22WRK                                              31322.00 90      027753.00
        BXE,$+1.32                                                 27755.32 C2      027753.40
        SIC,SEN                                                     1310.00 80      027754.00
        B,SERS             -SVA ABOVE BIT TO EXT MEM FAILED.        1304.10 00      027754.40

        KV,$X0,$R                                                     11.00 90      027755.00
        BXE,$+1.32                                                 27757.32 C2      027755.40
        SIC,SEN                                                     1310.00 80      027756.00
        B,SERS             -SVA ABOVE BIT TO INT MEM FAILED.        1304.10 00      027756.40

        KV,$X0,$X1                                                    21.00 90      027757.00
        BXE,$+1.32                                                 27761.32 C2      027757.40
        SIC,SEN                                                     1310.00 80      027760.00
        B,SERS             -SVA ABOVE BIT TO IX CORE STG FAILED.    1304.10 00      027760.40

        B,$+1.0                                                    27762.10 00      027761.00
        BD,I2215                                                   27733.04 00      027761.40
        SIC,SEN0+.32                                                1311.40 80      027762.00
        B,SSW              -TO SSIP.                                1301.10 00      027762.40
        BD,$+.32                                                   27763.44 00      027763.00

        LX,$X13,IC222      -UPDATE CONTINUITY CHECK.               31251.32 10      027763.40
        V+,$X13,BIT14                                              33347.32 B0      027764.00
        SX,$X13,IC222                                              31251.33 10      027764.40

12216   LX,$X0,IBIT12      -CHECK SVA TO 3 MEMS, DATA BIT 12.      31267.00 10      027765.00
        LX,$X1,I22K1                                               31303.02 10      027765.40
        SX,$X1,I22WRK                                              31322.03 10      027766.00
        SVA,$X0,I22WRK                                             31322.01 D0      027766.40
        SX,$X1,$R                                                     11.03 10      027767.00
        SVA,$X0,$R                                                    11.01 D0      027767.40
        SVA,$X0,$X1                                                   21.01 D0      027770.00
        NOP                                                           0.30 00       027770.40
        NOP                                                           0.30 00       027771.00
        NOP                                                           0.30 00       027771.40
        KV,$X0,I22WRK                                              31322.00 90      027772.00
        BXE,$+1.32                                                 27774.32 C2      027772.40
        SIC,SEN                                                     1310.00 80      027773.00
        B,SERS             -SVA ABOVE BIT TO EXT MEM FAILED.        1304.10 00      027773.40

        KV,$X0,$R                                                     11.00 90      027774.00
        BXE,$+1.32                                                 27776.32 C2      027774.40
        SIC,SEN                                                     1310.00 80      027775.00
        B,SERS             -SVA ABOVE BIT TO INT MEM FAILED.        1304.10 00      027775.40

        KV,$X0,$X1                                                    21.00 90      027776.00
        BXE,$+1.32                                                 30000.32 C2      027776.40
        SIC,SEN                                                     1310.00 80      027777.00
        B,SERS             -SVA ABOVE BIT TO IX CORE STG FAILED.    1304.10 00      027777.40
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        LX,$X0,IBIT13      -CHECK SVA TO 3 MEMS, DATA BIT 13.    31270.00 10      030000.00
        LX,$X1,I22K1                                            31303.02 10      030000.40
        SX,$X1,I22WRK                                           31322.03 10      030001.00
        SVA,$X0,I22WRK                                          31322.01 D0      030001.40
        SX,$X1,$R                                                  11.03 10      030002.00
        SVA,$X0,$R                                                 11.01 D0      030002.40
        SVA,$X0,$X1                                                21.01 D0      030003.00
        NOP                                                        0.30 00      030003.40
        NOP                                                        0.30 00      030004.00
        NOP                                                        0.30 00      030004.40
        KV,$X0,I22WRK                                           31322.00 90      030005.00
        BXE,$+1.32                                              30007.32 C2      030005.40
        SIC,SEN                                                  1310.00 80      030006.00
        B,SERS             -SVA ABOVE BIT TO EXT MEM FAILED.     1304.10 00      030006.40

        KV,$X0,$R                                                  11.00 90      030007.00
        BXE,$+1.32                                              30011.32 C2      030007.40
        SIC,SEN                                                  1310.00 80      030010.00
        B,SERS             -SVA ABOVE BIT TO INT MEM FAILED.     1304.10 00      030010.40

        KV,$X0,$X1                                                 21.00 90      030011.00
        BXE,$+1.32                                              30013.32 C2      030011.40
        SIC,SEN                                                  1310.00 80      030012.00
        B,SERS             -SVA ABOVE BIT TO IX CORE STG FAILED. 1304.10 00      030012.40

        B,$+1.0                                                 30014.10 00      030013.00
        BD,I2216                                                27765.04 00      030013.40
        SIC,SEN0+.32                                             1311.40 80      030014.00
        B,SSW              -TO SSIP.                             1301.10 00      030014.40
        BD,$+.32                                                30015.44 00      030015.00

        LX,$X13,IC222      -UPDATE CONTINUITY CHECK.            31251.32 10      030015.40
        V+,$X13,BIT15                                           33350.32 B0      030016.00
        SX,$X13,IC222                                           31251.33 10      030016.40

12217   LX,$X0,IBIT14      -CHECK SVA TO 3 MEMS, DATA BIT 14.    31271.00 10      030017.00
        LX,$X1,I22K1                                            31303.02 10      030017.40
        SX,$X1,I22WRK                                           31322.03 10      030020.00
        SVA,$X0,I22WRK                                          31322.01 D0      030020.40
        SX,$X1,$R                                                  11.03 10      030021.00
        SVA,$X0,$R                                                 11.01 D0      030021.40
        SVA,$X0,$X1                                                21.01 D0      030022.00
        NOP                                                        0.30 00      030022.40
        NOP                                                        0.30 00      030023.00
        NOP                                                        0.30 00      030023.40
        KV,$X0,I22WRK                                           31322.00 90      030024.00
        BXE,$+1.32                                              30026.32 C2      030024.40
        SIC,SEN                                                  1310.00 80      030025.00
        B,SERS             -SVA ABOVE BIT TO EXT MEM FAILED.     1304.10 00      030025.40

        KV,$X0,$R                                                  11.00 90      030026.00
        BXE,$+1.32                                              30030.32 C2      030026.40
        SIC,SEN                                                  1310.00 80      030027.00
        B,SERS             -SVA ABOVE BIT TO INT MEM FAILED.     1304.10 00      030027.40

        KV,$X0,$X1                                                 21.00 90      030030.00
        BXE,$+1.32                                              30032.32 C2      030030.40
        SIC,SEN                                                  1310.00 80      030031.00
        B,SERS             -SVA ABOVE BIT TO IX CORE STG FAILED. 1304.10 00      030031.40
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          LX,$X0,IBIT15        -CHECK SVA TO 3 MEMS, DATA BIT 15.        31272.00 10        030032.00
          LX,$X1,I22K1                                                  31303.02 10        030032.40
          SX,$X1,I22WRK                                                 31322.03 10        030033.00
          SVA,$X0,I22WRK                                                31322.01 DO        030033.40
          SX,$X1,$R                                                     11.03 10           030034.00
          SVA,$X0,$R                                                    11.01 DO           030034.40
          SVA,$X0,$X1                                                   21.01 DO           030035.00
          NOP                                                           0.30 00            030035.40
          NOP                                                           0.30 00            030036.00
          NOP                                                           0.30 00            030036.40
          KV,$X0,I22WRK                                                 31322.00 90        030037.00
          BXE,$+1.32                                                    30041.32 C2        030037.40
          SIC,SEN                                                       1310.00 80         030040.00
          B,SERS               -SVA ABOVE BIT TO EXT MEM FAILED.        1304.10 00         030040.40

          KV,$X0,$R                                                     11.00 90           030041.00
          BXE,$+1.32                                                    30043.32 C2        030041.40
          SIC,SEN                                                       1310.00 80         030042.00
          B,SERS               -SVA ABOVE BIT TO INT MEM FAILED.        1304.10 00         030042.40

          KV,$X0,$X1                                                    21.00 90           030043.00
          BXE,$+1.32                                                    30045.32 C2        030043.40
          SIC,SEN                                                       1310.00 80         030044.00
          B,SERS               -SVA ABOVE BIT TO IX CORE STG FAILED.    1304.10 00         030044.40

          B,$+1.0                                                       30046.10 00        030045.00
          BD,I2217                                                      30017.04 00        030045.40
          SIC,SEN0+.32                                                  1311.40 80         030046.00
          B,SSW                -TO SSIP.                                1301.10 00         030046.40
          BD,$+.32                                                      30047.44 00        030047.00

          LX,$X13,IC222        -UPDATE CONTINUITY CHECK.                31251.32 10        030047.40
          V+,$X13,BIT16                                                 33351.32 BO        030050.00
          SX,$X13,IC222                                                 31251.33 10        030050.40

 I2218    LX,$X0,IBIT16        -CHECK SVA TO 3 MEMS, DATA BIT 16.       31273.00 10        030051.00
          LX,$X1,I22K1                                                  31303.02 10        030051.40
          SX,$X1,I22WRK                                                 31322.03 10        030052.00
          SVA,$X0,I22WRK                                                31322.01 DO        030052.40
          SX,$X1,$R                                                     11.03 10           030053.00
          SVA,$X0,$R                                                    11.01 DO           030053.40
          SVA,$X0,$X1                                                   21.01 DO           030054.00
          NOP                                                           0.30 00            030054.40
          NOP                                                           0.30 00            030055.00
          NOP                                                           0.30 00            030055.40
          KV,$X0,I22WRK                                                 31322.00 90        030056.00
          BXE,$+1.32                                                    30060.32 C2        030056.40
          SIC,SEN                                                       1310.00 80         030057.00
          B,SERS               -SVA ABOVE BIT TO EXT MEM FAILED.        1304.10 00         030057.40

          KV,$X0,$R                                                     11.00 90           030060.00
          BXE,$+1.32                                                    30062.32 C2        030060.40
          SIC,SEN                                                       1310.00 80         030061.00
          B,SERS               -SVA ABOVE BIT TO INT MEM FAILED.        1304.10 00         030061.40

          KV,$X0,$X1                                                    21.00 90           030062.00
          BXE,$+1.32                                                    30064.32 C2        030062.40
          SIC,SEN                                                       1310.00 80         030063.00
          B,SERS               -SVA ABOVE BIT TO IX CORE STG FAILED.    1304.10 00         030063.40
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```
        LX,$X0,IBIT17        -CHECK SVA TO 3 MEMS, DATA BIT 17.        31274.00 10        030064.00
        LX,$X1,I22K1                                                   31303.02 10        030064.40
        SX,$X1,I22WRK                                                  31322.03 10        030065.00
        SVA,$X0,I22WRK                                                 31322.01 D0        030065.40
        SX,$X1,$R                                                         11.03 10        030066.00
        SVA,$X0,$R                                                        11.01 D0        030066.40
        SVA,$X0,$X1                                                       21.01 D0        030067.00
        NOP                                                               0.30 00        030067.40
        NOP                                                               0.30 00        030070.00
        NOP                                                               0.30 00        030070.40
        KV,$X0,I22WRK                                                  31322.00 90        030071.00
        BXE,$+1.32                                                     30073.32 C2        030071.40
        SIC,SEN                                                         1310.00 80        030072.00
        B,SERS               -SVA ABOVE BIT TO EXT MEM FAILED.          1304.10 00        030072.40

        KV,$X0,$R                                                        11.00 90        030073.00
        BXE,$+1.32                                                     30075.32 C2        030073.40
        SIC,SEN                                                         1310.00 80        030074.00
        B,SERS               -SVA ABOVE BIT TO INT MEM FAILED.          1304.10 00        030074.40

        KV,$X0,$X1                                                       21.00 90        030075.00
        BXE,$+1.32                                                     30077.32 C2        030075.40
        SIC,SEN                                                         1310.00 80        030076.00
        B,SERS               -SVA ABOVE BIT TO IX CORE STG FAILED.      1304.10 00        030076.40

        B,$+1.0                                                        30100.10 00        030077.00
        BD,I2218                                                       30051.04 00        030077.40
        SIC,SEN0+.32                                                   1311.40 80        030100.00
        B,SSW                -TO SSIP.                                 1301.10 00        030100.40
        BD,$+.32                                                       30101.44 00        030101.00

        LX,$X13,IC222        -UPDATE CONTINUITY CHECK.                 31251.32 10        030101.40
        V+,$X13,BIT17                                                  33352.32 B0        030102.00
        SX,$X13,IC222                                                  31251.33 10        030102.40

12219   LX,$X0,IBIT18        -CHECK SVA TO 3 MEMS, DATA BIT 18.        31275.00 10        030103.00
        LX,$X1,I22K1                                                   31303.02 10        030103.40
        SX,$X1,I22WRK                                                  31322.03 10        030104.00
        SVA,$X0,I22WRK                                                 31322.01 D0        030104.40
        SX,$X1,$R                                                         11.03 10        030105.00
        SVA,$X0,$R                                                        11.01 D0        030105.40
        SVA,$X0,$X1                                                       21.01 D0        030106.00
        NOP                                                               0.30 00        030106.40
        NOP                                                               0.30 00        030107.00
        NOP                                                               0.30 00        030107.40
        KV,$X0,I22WRK                                                  31322.00 90        030110.00
        BXE,$+1.32                                                     30112.32 C2        030110.40
        SIC,SEN                                                         1310.00 80        030111.00
        B,SERS               -SVA ABOVE BIT TO EXT MEM FAILED.          1304.10 00        030111.40

        KV,$X0,$R                                                        11.00 90        030112.00
        BXE,$+1.32                                                     30114.32 C2        030112.40
        SIC,SEN                                                         1310.00 80        030113.00
        B,SERS               -SVA ABOVE BIT TO INT MEM FAILED.          1304.10 00        030113.40

        KV,$X0,$X1                                                       21.00 90        030114.00
        BXE,$+1.32                                                     30116.32 C2        030114.40
        SIC,SEN                                                         1310.00 80        030115.00
        B,SERS               -SVA ABOVE BIT TO IX CORE STG FAILED.      1304.10 00        030115.40
```

```
        LX,$X0,IBIT19        -CHECK SVA TO 3 MEMS, DATA BIT 19.        31276.00 10        030116.00
        LX,$X1,I22K1                                                  31303.02 10        030116.40
        SX,$X1,I22WRK                                                 31322.03 10        030117.00
        SVA,$X0,I22WRK                                                31322.01 DO        030117.40
        SX,$X1,$R                                                        11.03 10        030120.00
        SVA,$X0,$R                                                       11.01 DO        030120.40
        SVA,$X0,$X1                                                      21.01 DO        030121.00
        NOP                                                              0.30 00        030121.40
        NOP                                                              0.30 00        030122.00
        NOP                                                              0.30 00        030122.40
        KV,$X0,I22WRK                                                 31322.00 90        030123.00
        BXE,$+1.32                                                    30125.32 C2        030123.40
        SIC,SEN                                                        1310.00 80        030124.00
        B,SERS               -SVA ABOVE BIT TO EXT MEM FAILED.         1304.10 00        030124.40

        KV,$X0,$R                                                        11.00 90        030125.00
        BXE,$+1.32                                                    30127.32 C2        030125.40
        SIC,SEN                                                        1310.00 80        030126.00
        B,SERS               -SVA ABOVE BIT TO INT MEM FAILED.         1304.10 00        030126.40

        KV,$X0,$X1                                                       21.00 90        030127.00
        BXE,$+1.32                                                    30131.32 C2        030127.40
        SIC,SEN                                                        1310.00 80        030130.00
        B,SERS               -SVA ABOVE BIT TO IX CORE STG FAILED.     1304.10 00        030130.40

        B,$+1.0                                                       30132.10 00        030131.00
        BD,I2219                                                      30103.04 00        030131.40
        SIC,SEN0+.32                                                  1311.40 80        030132.00
        B,SSW                -TO SSIP.                                 1301.10 00        030132.40
        BD,$+.32                                                      30133.44 00        030133.00

        LX,$X13,IC222        -UPDATE CONTINUITY CHECK.                31251.32 10        030133.40
        V+,$X13,BIT18                                                 33353.32 B0        030134.00
        SX,$X13,IC222                                                 31251.33 10        030134.40

12220   LX,$X0,IBIT20        -CHECK SVA TO 3 MEMS, DATA BIT 20.        31277.00 10        030135.00
        LX,$X1,I22K1                                                  31303.02 10        030135.40
        SX,$X1,I22WRK                                                 31322.03 10        030136.00
        SVA,$X0,I22WRK                                                31322.01 DO        030136.40
        SX,$X1,$R                                                        11.03 10        030137.00
        SVA,$X0,$R                                                       11.01 DO        030137.40
        SVA,$X0,$X1                                                      21.01 DO        030140.00
        NOP                                                              0.30 00        030140.40
        NOP                                                              0.30 00        030141.00
        NOP                                                              0.30 00        030141.40
        KV,$X0,I22WRK                                                 31322.00 90        030142.00
        BXE,$+1.32                                                    30144.32 C2        030142.40
        SIC,SEN                                                        1310.00 80        030143.00
        B,SERS               -SVA ABOVE BIT TO EXT MEM FAILED.         1304.10 00        030143.40

        KV,$X0,$R                                                        11.00 90        030144.00
        BXE,$+1.32                                                    30146.32 C2        030144.40
        SIC,SEN                                                        1310.00 80        030145.00
        B,SERS               -SVA ABOVE BIT TO INT MEM FAILED.         1304.10 00        030145.40

        KV,$X0,$X1                                                       21.00 90        030146.00
        BXE,$+1.32                                                    30150.32 C2        030146.40
        SIC,SEN                                                        1310.00 80        030147.00
        B,SERS               -SVA ABOVE BIT TO IX CORE STG FAILED.     1304.10 00        030147.40
```

```
        LX,$X0,IBIT21      -CHECK SVA TO 3 MEMS, DATA BIT 21.        31300.00 10      030150.00
        LX,$X1,I22K1                                                 31303.02 10      030150.40
        SX,$X1,I22WRK                                                31322.03 10      030151.00
        SVA,$X0,I22WRK                                               31322.01 D0      030151.40
        SX,$X1,$R                                                    11.03 10         030152.00
        SVA,$X0,$R                                                   11.01 D0         030152.40
        SVA,$X0,$X1                                                  21.01 D0         030153.00
        NOP                                                          0.30 00          030153.40
        NOP                                                          0.30 00          030154.00
        NOP                                                          0.30 00          030154.40
        KV,$X0,I22WRK                                                31322.00 90      030155.00
        BXE,$+1.32                                                   30157.32 C2      030155.40
        SIC,SEN                                                      1310.00 80       030156.00
        B,SERS             -SVA ABOVE BIT TO EXT MEM FAILED.         1304.10 00       030156.40

        KV,$X0,$R                                                    11.00 90         030157.00
        BXE,$+1.32                                                   30161.32 C2      030157.40
        SIC,SEN                                                      1310.00 80       030160.00
        B,SERS             -SVA ABOVE BIT TO INT MEM FAILED.         1304.10 00       030160.40

        KV,$X0,$X1                                                   21.00 90         030161.00
        BXE,$+1.32                                                   30163.32 C2      030161.40
        SIC,SEN                                                      1310.00 80       030162.00
        B,SERS             -SVA ABOVE BIT TO IX CORE STG FAILED.     1304.10 00       030162.40

        B,$+1.0                                                      30164.10 00      030163.00
        BD,I2220                                                     30135.04 00      030163.40
        SIC,SEN0+.32                                                 1311.40 80       030164.00
        B,SSW              -TO SSIP.                                 1301.10 00       030164.40
        BD,$+.32                                                     30165.44 00      030165.00

        LX,$X13,IC222      -UPDATE CONTINUITY CHECK.                 31251.32 10      030165.40
        V+,$X13,BIT19                                                33354.32 B0      030166.00
        SX,$X13,IC222                                                31251.33 10      030166.40

I2221   LX,$X0,IBIT22      -CHECK SVA TO 3 MEMS, DATA BIT 22.        31301.00 10      030167.00
        LX,$X1,I22K1                                                 31303.02 10      030167.40
        SX,$X1,I22WRK                                                31322.03 10      030170.00
        SVA,$X0,I22WRK                                               31322.01 D0      030170.40
        SX,$X1,$R                                                    11.03 10         030171.00
        SVA,$X0,$R                                                   11.01 D0         030171.40
        SVA,$X0,$X1                                                  21.01 D0         030172.00
        NOP                                                          0.30 00          030172.40
        NOP                                                          0.30 00          030173.00
        NOP                                                          0.30 00          030173.40
        KV,$X0,I22WRK                                                31322.00 90      030174.00
        BXE,$+1.32                                                   30176.32 C2      030174.40
        SIC,SEN                                                      1310.00 80       030175.00
        B,SERS             -SVA ABOVE BIT TO EXT MEM FAILED.         1304.10 00       030175.40

        KV,$X0,$R                                                    11.00 90         030176.00
        BXE,$+1.32                                                   30200.32 C2      030176.40
        SIC,SEN                                                      1310.00 80       030177.00
        B,SERS             -SVA ABOVE BIT TO INT MEM FAILED.         1304.10 00       030177.40
        KV,$X0,$X1                                                   21.00 90         030200.00
        BXE,$+1.32                                                   30202.32 C2      030200.40
        SIC,SEN                                                      1310.00 80       030201.00
        B,SERS             -SVA ABOVE BIT TO IX CORE STG FAILED.     1304.10 00       030201.40
```

```
LX,$X0,IBIT23        -CHECK SVA TO 3 MEMS, DATA BIT 23.       31302.00 10        030202.00
LX,$X1,I22K1                                                  31303.02 10        030202.40
SX,$X1,I22WRK                                                 31322.03 10        030203.00
SVA,$X0,I22WRK                                                31322.01 D0        030203.40
SX,$X1,$R                                                        11.03 10        030204.00
SVA,$X0,$R                                                       11.01 D0        030204.40
SVA,$X0,$X1                                                      21.01 D0        030205.00
NOP                                                               0.30 00        030205.40
NOP                                                               0.30 00        030206.00
NOP                                                               0.30 00        030206.40
KV,$X0,I22WRK                                                 31322.00 90        030207.00
BXE,$+1.32                                                    30211.32 C2        030207.40
SIC,SEN                                                        1310.00 80        030210.00
B,SERS               -SVA ABOVE BIT TO EXT MEM FAILED.        1304.10 00        030210.40

KV,$X0,$R                                                        11.00 90        030211.00
BXE,$+1.32                                                    30213.32 C2        030211.40
SIC,SEN                                                        1310.00 80        030212.00
B,SERS               -SVA ABOVE BIT TO INT MEM FAILED.        1304.10 00        030212.40

KV,$X0,$X1                                                       21.00 90        030213.00
BXE,$+1.32                                                    30215.32 C2        030213.40
SIC,SEN                                                        1310.00 80        030214.00
B,SERS               -SVA ABOVE BIT TO IX CORE STG FAILED.    1304.10 00        030214.40

B,$+1.0                                                       30216.10 00        030215.00
BD,I2221                                                      30167.04 00        030215.40
SIC,SEN0+.32                                                  1311.40 80        030216.00
B,SSW                -TO SSIP.                                 1301.10 00        030216.40
BD,$+.32                                                      30217.44 00        030217.00

LX,$X13,IC222        -UPDATE CONTINUITY CHECK.                31251.32 10        030217.40
V+,$X13,BIT20                                                 33355.32 B0        030220.00
SX,$X13,IC222                                                 31251.33 10        030220.40
```

-THIS SECTION OF THE TEST CHECKS THAT THE CORRECT
-NUMBER OF BITS ARE STORED. DETERMINATION IS
-DONE AS FOLLOWS.

          -1. IF BIT 27 IS 1, INSTRUCTION IS
          -DIRECT INDEX, STORE 19 BITS.

          -2. IF BITS 26 AND 27 ARE 10,INST-
          -RUCTIO IS FP, STORE 18 BITS.

          -3. IF BITS 25-27 ARE 100, INSTRUCT IS
          -CB OR BIND, STORE 19 BITS.

          -4. IF BITS 24-27 ARE 1000, INSTRUCT
          -IS FULL WD, STORE 24 BITS.

          -5. IF BITS 23-27 ARE 10000, INSTRUCT
          -IS IMMED IX, STORE 19 BITS.

          -6. IF BITS 23-27 ARE 00000, INSTRUCT
          -IS MISC, STORE 19 BITS.

```
12222   LX,$X0,122K3A      -CHECK STORE OF 19 BITS INTO DIR          31305.00 10      030221.00
        LX,$X1,122K4       -IX INST, BIT 27 OF WHICH IS 1.           31314.02 10      030221.40
        SX,$X1,122WRK                                                31322.03 10      030222.00
        SVA,$X0,122WRK                                               31322.01 DO      030222.40
        LX,$X2,122WRK                                                31322.04 10      030223.00
        KV,$X2,122K3B                                                31306.04 90      030223.40
        BXH,$+2.0                                                    30226.33 42      030224.00
        SIC,SEN            -SVA INTO DIR IX INST IN EXT MEM FAILS    1310.00 80       030224.40
        B,SERS             -TO STORE ANY BITS IN 0-17.               1304.10 00       030225.00
        B,12223                                                      30230.50 00      030225.40

        KV,$X2,122K3A                                                31305.04 90      030226.00
        BXL,$+1.0                                                    30227.72 42      030226.40
        B,$+1.32                                                     30230.50 00      030227.00
        SIC,SEN            -SVA INTO DIR IX INST IN EXT MEM FAILS    1310.00 80       030227.40
        B,SERS             -TO STORE ALL BITS IN 0-17.               1304.10 00       030230.00

12223   SX,$X1,122WRK                                                31322.03 10      030230.40
        LX,$X0,122K3C                                                31307.00 10      030231.00
        SVA,$X0,122WRK                                               31322.01 DO      030231.40
        LX,$X2,122WRK                                                31322.04 10      030232.00
        KV,$X2,122K3B                                                31306.04 90      030232.40
        BXH,$+1.0                                                    30234.33 42      030233.00
        B,$+2.0                                                      30235.50 00      030233.40
        SIC,SEN            -SVA INTO DIR IX INST IN EXT MEM          1310.00 80       030234.00
        B,SERS             -PICKS UP SOME BITS IN 0-17.              1304.10 00       030234.40
        B,12224                                                      30237.50 00      030235.00

        KV,$X2,122K3D                                                31310.04 90      030235.40
        BXH,$+1.32                                                   30237.73 42      030236.00
        SIC,SEN            -SVA INTO DIB IX INST IN EXT MEM FAILS    1310.00 80       030236.40
        B,SERS             -TO STORE BIT 18.                         1304.10 00       030237.00

12224   SX,$X1,122WRK                                                31322.03 10      030237.40
        LX,$X0,122K3D                                                31310.00 10      030240.00
        SVA,$X0,122WRK                                               31322.01 DO      030240.40
        LX,$X2,122WRK                                                31322.04 10      030241.00
        KV,$X2,122K3C                                                31307.04 90      030241.40
        BXL,$+2.0                                                    30244.32 42      030242.00
        SIC,SEN            -SVA INTO DIR IX INST IN EXT MEM          1310.00 80       030242.40
        B,SERS             -PICKS UP SOME BITS IN 0-18.              1304.10 00       030243.00
        B,12225                                                      30246.10 00      030243.40

        KV,$X2,122K3E                                                31311.04 90      030244.00
        BXL,$+1.32                                                   30246.32 42      030244.40
        SIC,SEN            -SVA INTO DIR IX INST IN EXT MEM          1310.00 80       030245.00
        B,SERS             -STORES SOME BITS IN 19-23.               1304.10 00       030245.40

12225   LX,$X0,122K3A                                                31305.00 10      030246.00
        LX,$X1,122K4                                                 31314.02 10      030246.40
        SX,$X1,$R                                                    11.03 10         030247.00
        SVA,$X0,$R                                                   11.01 DO         030247.40
        LX,$X2,$R                                                    11.04 10         030250.00
        KV,$X2,122K3B                                                31306.04 90      030250.40
        BXH,$+2.0                                                    30253.33 42      030251.00
        SIC,SEN            -SVA INTO DIR IX INST IN INT MEM          1310.00 80       030251.40
        B,SERS             -FAILS TO STORE ANY BITS IN 0-17.         1304.10 00       030252.00
        B,12226                                                      30255.50 00      030252.40
```

```
          KV,$X2,122K3A                                              31305.04 90           030253.00
          BXL,$+1.0                                                  30254.72 42           030253.40
          B,$+1.32                                                   30255.50 00           030254.00
          SIC,SEN              -SVA INTO DIR IX INST IN INT MEM       1310.00 80           030254.40
          B,SERS              -FAILS TO STORE ALL BITS IN 0-17.       1304.10 00           030255.00
                                                                    -
12226     SX,$X1,$R                                                    11.03 10           030255.40
          LX,$X0,122K3C                                              31307.00 10           030256.00
          SVA,$X0,$R                                                   11.01 D0           030256.40
          LX,$X2,$R                                                    11.04 10           030257.00
          KV,$X2,122K3B                                              31306.04 90           030257.40
          BXH,$+1.0                                                  30261.33 42           030260.00
          B,$+2.0                                                    30262.50 00           030260.40
          SIC,SEN              -SVA INTO DIR IX INST IN INT MEM       1310.00 80           030261.00
          B,SERS              -PICKS UP SOME BITS IN 0-17.            1304.10 00           030261.40
          B,12227                                                    30264.50 00           030262.00
                                                                    -
          KV,$X2,122K3D                                              31310.04 90           030262.40
          BXH,$+1.32                                                 30264.73 42           030263.00
          SIC,SEN              -SVA INTO DIR IX INST IN INT MEM       1310.00 80           030263.40
          B,SERS              -FAILS TO STORE BIT 18.                 1304.10 00           030264.00
                                                                    -
12227     SX,$X1,$R                                                    11.03 10           030264.40
          LX,$X0,122K3D                                              31310.00 10           030265.00
          SVA,$X0,$R                                                   11.01 D0           030265.40
          LX,$X2,$R                                                    11.04 10           030266.00
          KV,$X2,122K3C                                              31307.04 90           030266.40
          BXL,$+2.0                                                  30271.32 42           030267.00
          SIC,SEN              -SVA INTO DIR IX INST IN INT MEM       1310.00 80           030267.40
          B,SERS              -PICKS UP SOME BITS IN 0-18.            1304.10 00           030270.00
          B,12228                                                    30273.10 00           030270.40
                                                                    -
          KV,$X2,122K3E                                              31311.04 90           030271.00
          BXL,$+1.32                                                 30273.32 42           030271.40
          SIC,SEN              -SVA INTO DIR IX INST IN INT MEM       1310.00 80           030272.00
          B,SERS              -STORE SOME BITS IN 19-23.              1304.10 00           030272.40
```

```
12228   LX,$X0,122K3A                                                      31305.00 10        030273.00
        LX,$X1,122K4                                                       31314.02 10        030273.40
        SX,$X1,$X3                                                            23.03 10        030274.00
        SVA,$X0,$X3                                                           23.01 D0        030274.40
        LX,$X2,$X3                                                            23.04 10        030275.00
        KV,$X2,122K3B                                                       31306.04 90        030275.40
        BXH,$+2.0                                                           30300.33 42        030276.00
        SIC,SEN             -SVA INTO DIR IX INST IN IX CORE STG            1310.00 80         030276.40
        B,SERS              -FAILS TO STORE ANY BITS IN 0-17.               1304.10 00         030277.00
        B,12229                                                             30302.50 00        030277.40
                                                                            -
        KV,$X2,122K3A                                                      31305.04 90        030300.00
        BXL,$+1.0                                                          30301.72 42        030300.40
        B,$+1.32                                                           30302.50 00        030301.00
        SIC,SEN             -SVA INTO DIR IX INST IN IX CORE STG           1310.00 80         030301.40
        B,SERS              -FAILS TO STORE ALL BITS IN 0-17.              1304.10 00         030302.00
                                                                            -
12229   SX,$X1,$X3                                                            23.03 10        030302.40
        LX,$X0,122K3C                                                      31307.00 10        030303.00
        SVA,$X0,$X3                                                           23.01 D0        030303.40
        LX,$X2,$X3                                                            23.04 10        030304.00
        KV,$X2,122K3B                                                      31306.04 90        030304.40
        BXH,$+1.0                                                          30306.33 42        030305.00
        B,$+2.0                                                            30307.50 00        030305.40
        SIC,SEN             -SVA INTO DIR IX INST IN IX CORE STG           1310.00 80         030306.00
        B,SERS              -PICKS UP SOME BITS IN 0-17.                   1304.10 00         030306.40
        B,12230                                                            30311.50 00        030307.00
                                                                            -
        KV,$X2,122K3D                                                      31310.04 90        030307.40
        BXH,$+1.32                                                         30311.73 42        030310.00
        SIC,SEN             -SVA INTO DIR IX INST IN IX CORE STG           1310.00 80         030310.40
        B,SERS              -FAILS TO STORE BIT 18.                        1304.10 00         030311.00
                                                                            -
12230   SX,$X1,$X3                                                            23.03 10        030311.40
        LX,$X0,122K3D                                                      31310.00 10        030312.00
        SVA,$X0,$X3                                                           23.01 D0        030312.40
        LX,$X2,$X3                                                            23.04 10        030313.00
        KV,$X2,122K3C                                                      31307.04 90        030313.40
        BXL,$+2.0                                                          30316.32 42        030314.00
        SIC,SEN             -SVA INTO DIR IX INST IN IX CORE STG           1310.00 80         030314.40
        B,SERS              -PICKS UP SOME BITS IN 0-18.                   1304.10 00         030315.00
        B,12230A                                                           30320.10 00        030315.40
                                                                            -
        KV,$X2,122K3E                                                      31311.04 90        030316.00
        BXL,$+1.32                                                         30320.32 42        030316.40
        SIC,SEN             -SVA INTO DIR IX INST IN IX CORE STG           1310.00 80         030317.00
        B,SERS              -STORE SOME BITS IN 19-23.                     1304.10 00         030317.40
                                                                            -
12230A  B,$+1.0                                                           30321.10 00        030320.00
        BD,12222                                                           30221.04 00        030320.40
        SIC,SENO+.32                                                      1311.40 80         030321.00
        B,SSW               -TO SSIP                                       1301.10 00         030321.40
        BD,$+.32                                                          30322.44 00        030322.00
                                                                            -
        LX,$X13,IC222      -UPDATE CONTINUITY CHECK.                       31251.32 10        030322.40
        V+,$X13,BIT21                                                      33356.32 B0        030323.00
        SX,$X13,IC222                                                      31251.33 10        030323.40
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```
12231   LX,$X0,122K3A        -CHECK STORE OF 18 BITS ONLY INTO        31305.00 10        030324.00
        LX,$X1,122K2         -A FP INSTRUCT BITS 26 AND 27            31304.02 10        030324.40
        SX,$X1,122WRK        -OF WHICH ARE 10.                        31322.03 10        030325.00
        SVA,$X0,122WRK                                                31322.01 D0        030325.40
        LX,$X2,122WRK                                                 31322.04 10        030326.00
        KV,$X2,122K3B                                                 31306.04 90        030326.40
        BXH,$+2.0                                                     30331.33 42        030327.00
        SIC,SEN             -SVA INTO FP INST IN EXT MEM FAILS        1310.00 80         030327.40
        B,SERS              -TO STORE ANY BITS IN 0-17.               1304.10 00         030330.00
        B,12232                                                       30333.50 00        030330.40

        KV,$X2,122K3A                                                 31305.04 90        030331.00
        BXL,$+1.0                                                     30332.72 42        030331.40
        B,$+1.32                                                      30333.50 00        030332.00
        SIC,SEN             -SVA INTO FP INST IN EXT MEM FAILS        1310.00 80         030332.40
        B,SERS              -TO STORE ALL BITS IN 0-17.               1304.10 00         030333.00

12232   SX,$X1,122WRK                                                 31322.03 10        030333.40
        LX,$X0,122K3C                                                 31307.00 10        030334.00
        SVA,$X0,122WRK                                                31322.01 D0        030334.40
        LX,$X2,122WRK                                                 31322.04 10        030335.00
        KV,$X2,122K3B                                                 31306.04 90        030335.40
        BXH,$+1.0                                                     30337.33 42        030336.00
        B,$+2.0                                                       30340.50 00        030336.40
        SIC,SEN             -SVA INTO FP INST IN EXT MEM PICKS        1310.00 80         030337.00
        B,SERS              -UP SOME BITS IN 0-17.                    1304.10 00         030337.40
        B,12233                                                       30342.50 00        030340.00

        KV,$X2,122K3D                                                 31310.04 90        030340.40
        BXL,$+1.32                                                    30342.72 42        030341.00
        SIC,SEN             -SVA INTO FP INST IN EXT MEM STORES       1310.00 80         030341.40
        B,SERS              -BIT 18.                                  1304.10 00         030342.00

12233   SX,$X1,122WRK                                                 31322.03 10        030342.40
        LX,$X0,122K3D                                                 31310.00 10        030343.00
        SVA,$X0,122WRK                                                31322.01 D0        030343.40
        LX,$X2,122WRK                                                 31322.04 10        030344.00
   -:-  KV,$X2,122K3D                                                 31310.04 90        030344.40
        BXL,$+2.0                                                     30347.32 42        030345.00
        SIC,SEN             -SVA INTO FP INST IN EXT MEM PICKS        1310.00 80         030345.40
        B,SERS              -UP SOME BITS IN 0-18.                    1304.10 00         030346.00
        B,12234                                                       30351.10 00        030346.40

        KV,$X2,122K3E                                                 31311.04 90        030347.00
        BXL,$+1.32                                                    30351.32 42        030347.40
        SIC,SEN             -SVA INTO FP INST IN EXT MEM STORES       1310.00 80         030350.00
        B,SERS              -SOME BITS IN 19-23.                      1304.10 00         030350.40
```

```
12234    LX,$X0,122K3A                                             31305.00 10          030351.00
         SX,$X1,$R                                                    11.03 10          030351.40
         SVA,$X0,$R                                                   11.01 D0          030352.00
         LX,$X2,$R                                                    11.04 10          030352.40
         KV,$X2,122K3B                                             31306.04 90          030353.00
         BXH,$+2.0                                                 30355.73 42          030353.40
         SIC,SEN          -SVA INTO FP INST IN INT MEM FAILS        1310.00 80          030354.00
         B,SERS           -TO STORE ANY BITS IN 0-17.               1304.10 00          030354.40
         B,12235                                                   30360.10 00          030355.00

         KV,$X2,122K3A                                             31305.04 90          030355.40
         BXL,$+1.0                                                 30357.32 42          030356.00
         B,$+1.32                                                  30360.10 00          030356.40
         SIC,SEN          -SVA INTO FP INST IN INT MEM FAILS        1310.00 80          030357.00
         B,SERS           -TO STORE ALL BITS IN 0-17.               1304.10 00          030357.40

12235    SX,$X1,$R                                                    11.03 10          030360.00
         LX,$X0,122K3C                                             31307.00 10          030360.40
         SVA,$X0,$R                                                   11.01 D0          030361.00
         LV,$X2,$R                                                    11.04 30          030361.40
         KV,$X2,122K3B                                             31306.04 90          030362.00
         BXH,$+1.0                                                 30363.73 42          030362.40
         B,$+2.0                                                   30365.10 00          030363.00
         SIC,SEN          -SVA INTO FP INST IN INT MEM PICKS        1310.00 80          030363.40
         B,SERS           -UP SOME BITS IN 0-17.                    1304.10 00          030364.00
         B,12236                                                   30367.10 00          030364.40

         KV,$X2,122K3D                                             31310.04 90          030365.00
         BXL,$+1.32                                                30367.32 42          030365.40
         SIC,SEN          -SVA INTO FP INST IN INT MEM STORES       1310.00 80          030366.00
         B,SERS           -BIT 18.                                  1304.10 00          030366.40

12236    SX,$X1,$R                                                    11.03 10          030367.00
         LX,$X0,122K3D                                             31310.00 10          030367.40
         SVA,$X0,$R                                                   11.01 D0          030370.00
         LX,$X2,$R                                                    11.04 10          030370.40
         KV,$X2,122K3D                                             31310.04 90          030371.00
         BXL,$+2.0                                                 30373.72 42          030371.40
         SIC,SEN          -SVA INTO FP INST IN INT MEM PICKS        1310.00 80          030372.00
         B,SERS    .      -UP SOME BITS IN 0-18.                    1304.10 00          030372.40
         B,12237                                                   30375.50 00          030373.00

         KV,$X2,122K3E                                             31311.04 90          030373.40
         BXL,$+1.32                                                30375.72 42          030374.00
         SIC,SEN          -SVA INTO FP INST IN INT MEM STORES       1310.00 80          030374.40
         B,SERS           -COME BITS IN 19-23.                      1304.10 00          030375.00
```

```
12237    LX,$X0,122K3A                                                31305.00 10        030375.40
         LX,$X1,122K2                                                 31304.02 10        030376.00
         SX,$X1,$X3                                                      23.03 10        030376.40
         SVA,$X0,$X3                                                     23.01 D0        030377.00
         LX,$X2,$X3                                                      23.04 10        030377.40
         KV,$X2,122K3B                                                31306.04 90        030400.00
         BXH,$+2.0                                                    30402.73 42        030400.40
         SIC,SEN           -SVA INTO FP INST IN IX CORE STG           1310.00 80         030401.00
         B,SERS            -FAILS TO STORE ANY BITS IN 0-17.          1304.10 00         030401.40
         B,12238                                                      30405.10 00        030402.00

         KV,$X2,122K3A                                                31305.04 90        030402.40
         BXL,$+1.0                                                    30404.32 42        030403.00
         B,$+1.32                                                     30405.10 00        030403.40
         SIC,SEN           -SVA INTO FP INST IN IX CORE STG           1310.00 80         030404.00
         B,SERS            -FAILS TO STORE ALL BITS IN 0-17.          1304.10 00         030404.40

12238    SX,$X1,$X3                                                      23.03 10        030405.00
         LX,$X0,122K3C                                                31307.00 10        030405.40
         SVA,$X0,$X3                                                     23.01 D0        030406.00
         LX,$X2,$X3                                                      23.04 10        030406.40
         KV,$X2,122K3B                                                31306.04 90        030407.00
         BXH,$+1.0                                                    30410.73 42        030407.40
         B,$+2.0                                                      30412.10 00        030410.00
         SIC,SEN           -SVA INTO FP INST IN IX CORE STG           1310.00 80         030410.40
         B,SERS            -PICKS UP SOME BITS IN 0-17.               1304.10 00         030411.00
         B,12239                                                      30414.10 00        030411.40

         KV,$X2,122K3D                                                31310.04 90        030412.00
         BXL,$+1.32                                                   30414.32 42        030412.40
         SIC,SEN           -SVA INTO FP INST IN IX CORE STG           1310.00 80         030413.00
         B,SERS            -STORES BIT 18.                            1304.10 00         030413.40

12239    SX,$X1,$X3                                                      23.03 10        030414.00
         LX,$X0,122K3D                                                31310.00 10        030414.40
         SVA,$X0,$X3                                                     23.01 D0        030415.00
         LX,$X2,$X3                                                      23.04 10        030415.40
         KV,$X2,122K3D                                                31310.04 90        030416.00
         BXL,$+2.0                                                    30420.72 42        030416.40
         SIC,SEN           -SVA INTO FP INST IN IX CORE STG           1310.00 80         030417.00
         B,SERS            -PICKS UP SOME BITS IN 0-18.               1304.10 00         030417.40
         B,12240                                                      30422.50 00        030420.00

         KV,$X2,122K3E                                                31311.04 90        030420.40
         BXL,$+1.32                                                   30422.72 42        030421.00
         SIC,SEN           -SVA INTO FP INST IN IX CORE STG           1310.00 80         030421.40
         B,SERS            -STORES SOME BITS IN 19-23.                1304.10 00         030422.00

12240    B,$+1.0                                                      30423.50 00        030422.40
         BD,12231                                                     30324.04 00        030423.00
         SIC,SENO+.32                                                 1311.40 80         030423.40
         B,SSW             -TO SSIP.                                  1301.10 00         030424.00
         BD,$+.32                                                     30425.04 00        030424.40

         LX,$X13,IC222     -UPDATE CONTINUITY CHECK.                  31251.32 10        030425.00
         V+,$X13,BIT22                                                33357.32 B0        030425.40
         SX,$X13,IC222                                                31251.33 10        030426.00
```

```
12241    LX,$X0,122K3A         -CHECK STORE OF 19 BITS ONLY INTO      31305.00 10      030426.40
         LX,$X1,122K4A         -A BMK INST, BITS 25-27 OF            31315.02 10      030427.00
         SX,$X1,122WRK         -WHICH ARE 100.                       31322.03 10      030427.40
         SVA,$X0,122WRK                                              31322.01 D0      030430.00
         LX,$X2,122WRK                                               31322.04 10      030430.40
         KV,$X2,122K3B                                               31306.04 90      030431.00
         BXH,$+2.0                                                   30433.73 42      030431.40
         SIC,SEN               -SVA INTO BMK INST IN EXT MEM         1310.00 80       030432.00
         B,SERS                -FAILS TO STORE ANY BITS IN 0-17.     1304.10 00       030432.40
         B,12242                                                     30436.10 00      030433.00

         KV,$X2,122K3A                                               31305.04 90      030433.40
         BXL,$+1.0                                                   30435.32 42      030434.00
         B,$+1.32                                                    30436.10 00      030434.40
         SIC,SEN               -SVA INTO BMK INST IN EXT MEM         1310.00 80       030435.00
         B,SERS                -FAILS TO STORE ALL BITS IN 0-17.     1304.10 00       030435.40

12242    SX,$X1,122WRK                                               31322.03 10      030436.00
         LX,$X0,122K3C                                               31307.00 10      030436.40
         SVA,$X0,122WRK                                              31322.01 D0      030437.00
         LX,$X2,122WRK                                               31322.04 10      030437.40
         KV,$X2,122K3B                                               31306.04 90      030440.00
         BXH,$+1.0                                                   30441.73 42      030440.40
         B,$+2.0                                                     30443.10 00      030441.00
         SIC,SEN               -SVA INTO BMK INST IN EXT MEM         1310.00 80       030441.40
         B,SERS                -PICKS UP SOME BITS IN 0-17.          1304.10 00       030442.00
         B,12243                                                     30445.10 00      030442.40

         KV,$X2,122K3D                                               31310.04 90      030443.00
         BXH,$+1.32                                                  30445.33 42      030443.40
         SIC,SEN               -SVA INTO BMK INST IN EXT MEM         1310.00 80       030444.00
         B,SERS                -FAILS TO STORE BIT 18.               1304.10 00       030444.40

12243    SX,$X1,122WRK                                               31322.03 10      030445.00
         LX,$X0,122K3D                                               31310.00 10      030445.40
         SVA,$X0,122WRK                                              31322.01 D0      030446.00
         LX,$X2,122WRK                                               31322.04 10      030446.40
         KV,$X2,122K3C                                               31307.04 90      030447.00
         BXL,$+2.0                                                   30451.72 42      030447.40
         SIC,SEN               -SVA INTO BMK INST IN EXT MEM         1310.00 80       030450.00
         B,SERS                -PICKS UP SOME BITS IN 0-18.          1304.10 00       030450.40
         B,12244                                                     30453.50 00      030451.00

         KV,$X2,122K3E                                               31311.04 90      030451.40
         BXL,$+1.32                                                  30453.72 42      030452.00
         SIC,SEN               -SVA INTO BMK INST IN EXT MEM         1310.00 80       030452.40
         B,SERS                -STORES SOME BITS IN 19-23.           1304.10 00       030453.00
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12244   LX,$X0,122K3A                                          31305.00 10        030453.40
        LX,$X1,122K4A                                          31315.02 10        030454.00
        SX,$X1,$R                                                 11.03 10        030454.40
        SVA,$X0,$R                                                11.01 D0        030455.00
        LX,$X2,$R                                                 11.04 10        030455.40
        KV,$X2,122K3B                                          31306.04 90        030456.00
        BXH,$+2.0                                              30460.73 42        030456.40
        SIC,SEN          -SVA INTO BMK INST IN INT MEM          1310.00 80        030457.00
        B,SERS           -FAILS TO STORE ANY BITS IN 0-17.      1304.10 10        030457.40
        B,12245                                               30463.10 00        030460.00

        KV,$X2,122K3A                                          31305.04 90        030460.40
        BXL,$+1.0                                              30462.32 42        030461.00
        B,$+1.32                                               30463.10 00        030461.40
        SIC,SEN          -SVA INTO BMK INST IN INT MEM          1310.00 80        030462.00
        B,SERS           -FAILS TO STORE ALL BITS IN 0-17.      1304.10 00        030462.40

12245   SX,$X1,$R                                                 11.03 10        030463.00
        LX,$X0,122K3C                                          31307.00 10        030463.40
        SVA,$X0,$R                                                11.01 D0        030464.00
        LX,$X2,$R                                                 11.04 10        030464.40
        KV,$X2,122K3B                                          31306.04 90        030465.00
        BXH,$+1.0                                              30466.73 42        030465.40
        B,$+2.0                                                30470.10 00        030466.00
        SIC,SEN          -SVA INTO BMK INST IN INT MEM          1310.00 80        030466.40
        B,SERS           -PICKS UP SOME BITS IN 0-17.           1304.10 00        030467.00

        B,12246                                               30472.10 00        030467.40
        KV,$X2,122K3D                                          31310.04 90        030470.00
        BXH,$+1.32                                             30472.33 42        030470.40
        SIC,SEN          -SVA INTO BMK INST IN INT MEM          1310.00 80        030471.00
        B,SERS           -FAILS TO STORE BIT 18.                1304.10 00        030471.40

12246   SX,$X1,$R                                                 11.03 10        030472.00
        LX,$X0,122K3D                                          31310.00 10        030472.40
        SVA,$X0,$R                                                11.01 D0        030473.00
        LX,$X2,$R                                                 11.04 10        030473.40
        KV,$X2,122K3C                                          31307.04 90        030474.00
        BXL,$+2.0                                              30476.72 42        030474.40
        SIC,SEN          -SVA INTO BMK INST IN INT MEM          1310.00 80        030475.00
        B,SERS           -PICKS UP SOME BITS IN 0-18.           1304.10 00        030475.40
        B,12247                                               30500.50 00        030476.00

        KV,$X2,122K3E                                          31311.04 90        030476.40
        BXL,$+1.32                                             30500.72 42        030477.00
        SIC,SEN          -SVA INTO BMK INST IN INT MEM          1310.00 80        030477.40
        B,SERS           -STORES SOME BITS IN 19-23.            1304.10 00        030500.00
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12247   LX,$X0,I22K3A                                          31305.00 10          030500.40
        LX,$X1,I22K4A                                          31315.02 10          030501.00
        SX,$X1,$X3                                                23.03 10          030501.40
        SVA,$X0,$X3                                               23.01 D0          030502.00
        LX,$X2,$X3                                                23.04 10          030502.40
        KV,$X2,I22K3B                                          31306.04 90          030503.00
        BXH,$+2.0                                              30505.73 42          030503.40
        SIC,SEN            -SVA INTO BMK INST IN IX CORE STG    1310.00 80          030504.00
        B,SERS             -FAILS TO STORE ANY BITS IN 0-17.    1304.10 00          030504.40
        B,12248                                                30510.10 00          030505.00

        KV,$X2,I22K3A                                          31305.04 90          030505.40
        BXL,$+1.0                                              30507.32 42          030506.00
        B,$+1.32                                               30510.10 00          030506.40
        SIC,SEN            -SVA INTO BMK INST IN IX CORE STG    1310.00 80          030507.00
        B,SERS             -FAILS TO STORE ALL BITS IN 0-17.    1304.10 00          030507.40

12248   SX,$X1,$X3                                                23.03 10          030510.00
        LX,$X0,I22K3C                                          31307.00 10          030510.40
        SVA,$X0,$X3                                               23.01 D0          030511.00
        LX,$X2,$X3                                                23.04 10          030511.40
        KV,$X2,I22K3B                                          31306.04 90          030512.00
        BXH,$+1.0                                              30513.73 42          030512.40
        B,$+2.0                                                30515.10 00          030513.00
        SIC,SEN            -SVA INTO BMK INST IN IX CORE STG    1310.00 80          030513.40
        B,SERS             -PICKS UP SOME BITS IN 0-17.         1304.10 00          030514.00
        B,12249                                                30517.10 00          030514.40

        KV,$X2,I22K3D                                          31310.04 90          030515.00
        BXH,$+1.32                                             30517.33 42          030515.40
        SIC,SEN            -SVA INTO BMK INST IN IX CORE STG    1310.00 80          030516.00
        B,SERS             -FAILS TO STORE BIT 18.             1304.10 00          030516.40

12249   SX,$X1,$X3                                                23.03 10          030517.00
        LX,$X0,I22K3D                                          31310.00 10          030517.40
        SVA,$X0,$X3                                               23.01 D0          030520.00
        LX,$X2,$X3                                                23.04 10          030520.40
        KV,$X2,I22K3C                                          31307.04 90          030521.00
        BXL,$+2.0                                              30523.72 42          030521.40
        SIC,SEN            -SVA INTO BMK INST IN IX CORE STG    1310.00 80          030522.00
        B,SERS             -PICKS UP SOME BITS IN 0-18.         1304.10 00          030522.40
        B,12250                                                30525.50 00          030523.00

        KV,$X2,I22K3E                                          31311.04 90          030523.40
        BXL,$+1.32                                             30525.72 42          030524.00
        SIC,SEN            -SVA INTO BMK INST IN IX CORE STG    1310.00 80          030524.40
        B,SERS             -STOES SOME BITS IN 19-23.           1304.10 00          030525.00

12250   B,$+1.0                                                30526.50 00          030525.40
        BD,12241                                               30426.44 00          030526.00
        SIC,SENO+.32                                            1311.40 80          030526.40
        B,SSW              -TO SSIP.                            1301.10 00          030527.00
        BD,$+.32                                               30530.04 00          030527.40

        LX,$X13,IC222      -UPDATE CONTINUITY CHECK.           31251.32 10          030530.00
        V+,$X13,BIT23                                          33360.32 B0          030530.40
        SX,$X13,IC222                                          31251.33 10          030531.00
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12251   LX,$X0,122K3A      -CHECK STORE OF 24 BITS INTO A        31305.00 10      030531.40
        LX,$X1,122K1       -FULL WORD INST, BITS 24-27 OF        31303.02 10      030532.00
        SX,$X1,122WRK      -WHICH ARE 1000.                      31322.03 10      030532.40
        SVA,$X0,122WRK                                           31322.01 D0      030533.00
        LC,$X2,122WRK                                            31322.04 50      030533.40
        SC,$X2,$X2                                                  22.05 50      030534.00
        KV,$X2,122K3B                                            31306.04 90      030534.40
        BXH,$+2.0                                                30537.33 42      030535.00
        SIC,SEN            -SVA INTO FULL WD INST IN EXT MEM      1310.00 80      030535.40
        B,SERS            -FAILED TO STORE ANY BITS IN 0-17.      1304.10 00      030536.00
        B,12252                                                  30541.50 00      030536.40

        KV,$X2,122K3A                                            31305.04 90      030537.00
        BXL,$+1.0                                                30540.72 42      030537.40
        B,$+1.32                                                 30541.50 00      030540.00
        SIC,SEN            -SVA INTO FULL WD INST IN EXT MEM      1310.00 80      030540.40
        B,SERS            -FAILED TO STORE ALL BITS IN 0-17.      1304.10 00      030541.00

12252   SX,$X1,122WRK                                            31322.03 10      030541.40
        LX,$X0,122K3B                                            31306.00 10      030542.00
        SVA,$X0,122WRK                                           31322.01 D0      030542.40
        LX,$X2,122WRK                                            31322.04 10      030543.00
        KV,$X2,122K3F                                            31312.04 90      030543.40
        BZXL,$+2.0                                               30546.32 40      030544.00
        SIC,SEN            -SVA INTO FULL WD INST IN EXT MEM      1310.00 80      030544.40
        B,SERS            -PICKS UP SOME BITS IN 0-17.            1304.10 00      030545.00
        B,12253                                                  30550.10 00      030545.40

        KV,$X2,122K3G                                            31313.04 90      030546.00
        BXL,$+1.32                                               30550.32 42      030546.40
        SIC,SEN            -SVA INTO FULL WD INST IN EXT MEM      1310.00 80      030547.00
        B,SERS            -FAILS TO STORE BIT 18.                 1304.10 00      030547.40

12253   SX,$X1,122WRK                                            31322.03 10      030550.00
        LX,$X0,122K3D                                            31310.00 10      030550.40
        SVA,$X0,122WRK                                           31322.01 D0      030551.00
        LX,$X2,122WRK                                            31322.04 10      030551.40
        KV,$X2,122K3G                                            31313.04 90      030552.00
        BZXL,$+2.0                                               30554.72 40      030552.40
        SIC,SEN            -SVA INTO FULL WD INST IN EXT MEM      1310.00 80      030553.00
        B,SERS            -PICKS UP SOME BITS 0-18.               1304.10 00      030553.40
        B,12254                                                  30556.10 00      030554.00

        BXE,$+1.32                                               30556.32 C2      030554.40
        SIC,SEN            -SVA INTO FULL WD INST IN EXT MEM      1310.00 80      030555.00
        B,SERS            -FAILS TO STORE SOME OR ALL BITS 19-23. 1304.10 00      030555.40

12254   SX,$X1,122WRK                                            31322.03 10      030556.00
        LX,$X0,100Z                                              33311.00 10      030556.40
        SVA,$X0,122WRK                                           31322.01 D0      030557.00
        LX,$X2,122WRK                                            31322.04 10      030557.40
        KV,$X2,100Z                                              33311.04 90      030560.00
        BXE,$+1.32                                               30562.32 C2      030560.40
        SIC,SEN            -SVA INTO FULL WD INST IN EXT MEM      1310.00 80      030561.00
        B,SERS            -PICK UP SOME BITS 0-23.                1304.10 00      030561.40
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12255   LX,$X0,122K3A                                              31305.00 10        030562.00
        LX,$X1,122K1                                               31303.02 10        030562.40
        SX,$X1,$R                                                     11.03 10        030563.00
        SVA,$X0,$R                                                    11.01 D0        030563.40
        LC,$X2,$R                                                     11.04 50        030564.00
        SC,$X2,$X2                                                    22.05 50        030564.40
        KV,$X2,122K3B                                               31306.04 90        030565.00
        BXH,$+2.0                                                   30567.73 42        030565.40
        SIC,SEN         -SVA INTO FULL WD INST IN INT MEM            1310.00 80        030566.00
        B,SERS          -FAILED TO STORE ANY BITS IN 0-17.          1304.10 00        030566.40
        B,12256                                                    30572.10 00        030567.00

        KV,$X2,122K3A                                               31305.04 90        030567.40
        BXL,$+1.0                                                   30571.32 42        030570.00
        B,$+1.32                                                    30572.10 00        030570.40
        SIC,SEN         -SVA INTO FULL WD INST IN INT MEM            1310.00 80        030571.00
        B,SERS          -FAILED TO STORE ALL BITS IN 0-17.          1304.10 00        030571.40

12256   SX,$X1,$R                                                     11.03 10        030572.00
        LX,$X0,122K3B                                               31306.00 10        030572.40
        SVA,$X0,$R                                                    11.01 D0        030573.00
        LX,$X2,$R                                                     11.04 10        030573.40
        KV,$X2,122K3F                                               31312.04 90        030574.00
        BZXL,$+2.0                                                  30576.72 40        030574.40
        SIC,SEN         -SVA INTO FULL WD INST IN INT MEM            1310.00 80        030575.00
        B,SERS          -PICKS UP SOME BITS IN 0-17.                1304.10 00        030575.40
        B,12257                                                    30600.50 00        030576.00

        KV,$X2,122K3G                                               31313.04 90        030576.40
        BXL,$+1.32                                                  30600.72 42        030577.00
        SIC,SEN         -SVA INTO FULL WD INST IN INT MEM            1310.00 80        030577.40
        B,SERS          -FAILS TO STORE BIT 18.                     1304.10 00        030600.00

12257   SX,$X1,$R                                                     11.03 10        030600.40
        LX,$X0,122K3D                                               31310.00 10        030601.00
        SVA,$X0,$R                                                    11.01 D0        030601.40
        LX,$X2,$R                                                     11.04 10        030602.00
        KV,$X2,122K3G                                               31313.04 90        030602.40
        BZXL,$+2.0                                                  30605.32 40        030603.00
        SIC,SEN         -SVA INTO FULL WD INST IN INT MEM            1310.00 80        030603.40
        B,SERS          -PICKS UP SOME BITS IN 0-18.                1304.10 00        030604.00
        B,12258                                                    30606.50 00        030604.40

        BXE,$+1.32                                                  30606.72 C2        030605.00
        SIC,SEN         -SVA INTO FULL WD INST IN INT MEM            1310.00 80        030605.40
        B,SERS          -FAILS TO STORE SOME OR ALL BITS 19-23.     1304.10 00        030606.00

12258   SX,$X1,$R                                                     11.03 10        030606.40
        LX,$X0,100Z                                                 33311.00 10        030607.00
        SVA,$X0,$R                                                    11.01 D0        030607.40
        LX,$X2,$R                                                     11.04 10        030610.00
        KV,$X2,100Z                                                 33311.04 90        030610.40
        BXE,$+1.32                                                  30612.72 C2        030611.00
        SIC,SEN         -SVA INTO FULL WD INST IN INT MEM            1310.00 80        030611.40
        B,SERS          -PICKS UP SOME BITS 0-23.                   1304.10 00        030612.00
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12259   LX,$X0,122K3A                                          31305.00 10        030612.40
        LX,$X1,122K1                                           31303.02 10        030613.00
        SX,$X1,$X3                                                23.03 10        030613.40
        SVA,$X0,$X3                                               23.01 D0        030614.00
        LC,$X2,$X3                                                23.04 50        030614.40
        SC,$X2,$X2                                                22.05 50        030615.00
        KV,$X2,122K3B                                          31306.04 90        030615.40
        BXH,$+2.0                                              30620.33 42        030616.00
        SIC,SEN          -SVA INTO FULL WD INST IN IX CORE STG  1310.00 80        030616.40
        B,SERS           -FAILED TO STORE ANY BITS IN 0-17.     1304.10 00        030617.00
        B,12260                                                30622.50 00        030617.40

        KV,$X2,122K3A                                          31305.04 90        030620.00
        BXL,$+1.0                                              30621.72 42        030620.40
        B,$+1.32                                               30622.50 00        030621.00
        SIC,SEN          -SVA INTO FULL WD INST IN IX CROE STG  1310.00 80        030621.40
        B,SERS           -FAILED TO STORE ALL BITS IN 0-17     1304.10 00        030622.00

12260   SX,$X1,$X3                                                23.03 10        030622.40
        LX,$X0,122K3B                                          31306.00 10        030623.00
        SVA,$X0,$X3                                               23.01 D0        030623.40
        LX,$X2,$X3                                                23.04 10        030624.00
        KV,$X2,122K3F                                          31312.04 90        030624.40
        BZXL,$+2.0                                             30627.32 40        030625.00
        SIC,SEN          -SVA INTO FULL WD INST IN IX CORE STG  1310.00 80        030625.40
        B,SERS           -PICKS UP SOME BITS IN 0-17.           1304.10 00        030626.00
        B,12261                                                30631.10 00        030626.40

        KV,$X2,122K3G                                          31313.04 90        030627.00
        BXL,$+1.32                                             30631.32 42        030627.40
        SIC,SEN          -SVA INTO FULL WD INST IN IX CORE STG  1310.00 80        030630.00
        B,SERS           -FAILS TO STORE BIT 18.               1304.10 00        030630.40

12261   SX,$X1,$X3                                                23.03 10        030631.00
        LX,$X0,122K3D                                          31310.00 10        030631.40
        SVA,$X0,$X3                                               23.01 D0        030632.00
        LX,$X2,$X3                                                23.04 10        030632.40
        KV,$X2,122K3G                                          31313.04 90        030633.00
        BZXL,$+2.0                                             30635.72 40        030633.40
        SIC,SEN          -SVA INTO FULL WD INST IN IX CORE STG  1310.00 80        030634.00
        B,SERS           -PICKS UP SOME BITS 0-18.             1304.10 00        030634.40
        B,12262                                                30637.10 00        030635.00

        BXE,$+1.32                                             30637.32 C2        030635.40
        SIC,SEN          -SVA INTO FULL WD INST IN IX CORE STG  1310.00 80        030636.00
        B,SERS           -FAILS TO STORE SOME OR ALL BITS 19-23. 1304.10 00       030636.40

12262   SX,$X1,$X3                                                23.03 10        030637.00
        LX,$X0,100Z                                            33311.00 10        030637.40
        SVA,$X0,$X3                                               23.01 D0        030640.00
        LX,$X2,$X3                                                23.04 10        030640.40
        KV,$X2,100Z                                            33311.04 90        030641.00
        BXE,$+1.32                                             30643.32 C2        030641.40
        SIC,SEN          -SVA INTO FULL WD INST IN IX CORE STG  1310.00 80        030642.00
        B,SERS           -PICKS UP SOME BITS 0-23.             1304.10 00        030642.40

        B,$+1.0                                                30644.10 00        030643.00
        BD,12251                                               30531.44 00        030643.40
        SIC,SEN0+.32                                            1311.40 80        030644.00
        B,SSW            -TO SSIP.                              1301.10 00        030644.40
        BD,$+.32                                               30645.44 00        030645.00
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```
LX,$X13,IC222      -UPDATE CONTINUITY CHECK.      31251.32 10      030645.40
SC,$X13,$X12                                         34.33 50      030646.00
V+,$X12,BIT0                                      33331.30 B0      030646.40
LC,$X13,$X12                                         34.32 50      030647.00
SX,$X13,IC222                                     31251.33 10      030647.40
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12263   LX,$X0,122K3A      -CHECK STORE OF 19 BITS ONLY INTO        31305.00 10        030650.00
        LX,$X1,122K5       -IM IX INST BITS 23-27 OF WHICH          31316.02 10        030650.40
        SX,$X1,122WRK      -ARE 10000.                              31322.03 10        030651.00
        SVA,$X0,122WRK                                              31322.01 D0        030651.40
        LX,$X2,122WRK                                               31322.04 10        030652.00
        KV,$X2,122K3B                                               31306.04 90        030652.40
        BXH,$+2.0                                                   30655.33 42        030653.00
        SIC,SEN            -SVA INTO IM IX INST IN EXT MEM          1310.00 80         030653.40
        B,SERS             -FAILS TO STORE ANY BITS IN 0-17.        1304.10 00         030654.00
        B,12264                                                     30657.50 00        030654.40

        KV,$X2,122K3A                                               31305.04 90        030655.00
        BXL,$+1.0                                                   30656.72 42        030655.40
        B,$+1.32                                                    30657.50 00        030656.00
        SIC,SEN            -SVA INTO IM IX INST IN EXT MEM          1310.00 80         030656.40
        B,SERS             -FAILS TO STORE ALL BITS IN 0-17.        1304.10 00         030657.00

12264   SX,$X1,122WRK                                               31322.03 10        030657.40
        LX,$X0,122K3C                                               31307.00 10        030660.00
        SVA,$X0,122WRK                                              31322.01 D0        030660.40
        LX,$X2,122WRK                                               31322.04 10        030661.00
        KV,$X2,122K3B                                               31306.04 90        030661.40
        BXH,$+1.0                                                   30663.33 42        030662.00
        B,$+2.0                                                     30664.50 00        030662.40
        SIC,SEN            -SVA INTO IM IX INST IN EXT MEM          1310.00 80         030663.00
        B,SERS             -PICKS UP SOME IBTS IN 0-17.             1304.10 00         030663.40
        B,12265                                                     30666.50 00        030664.00

        KV,$X2,122K3D                                               31310.04 90        030664.40
        BXH,$+1.32                                                  30666.73 42        030665.00
        SIC,SEN            -SVA INTO IM IX INST IN EXT MEM          1310.00 80         030665.40
        B,SERS             -FAILS TO STORE BIT 18.                  1304.10 00         030666.00

12265   SX,$X1,122WRK                                               31322.03 10        030666.40
        LX,$X0,122K3D                                               31310.00 10        030667.00
        SVA,$X0,122WRK                                              31322.01 D0        030667.40
        LX,$X2,122WRK                                               31322.04 10        030670.00
        KV,$X2,122K3C                                               31307.04 90        030670.40
        BXL,$+2.0                                                   30673.32 42        030671.00
        SIC,SEN            -SVA INTO IM IX INST IN EXT MEM          1310.00 80         030671.40
        B,SERS             -PICKS UP SOME BITS IN 0-18.             1304.10 00         030672.00
        B,12266                                                     30675.10 00        030672.40

        KV,$X2,122K3E                                               31311.04 90        030673.00
        BXE,$+1.32                                                  30675.32 C2        030673.40
        SIC,SEN            -SVA INTO IM IX INST IN EXT MEM          1310.00 80         030674.00
        B,SERS             -STORES SOME BITS IN 19-23.              1304.10 00         030674.40
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12266   LX,$X0,122K3A                                               31305.00 10        030675.00
        LX,$X1,122K5                                                31316.02 10        030675.40
        SX,$X1,$R                                                      11.03 10        030676.00
        SVA,$X0,$R                                                     11.01 D0        030676.40
        LX,$X2,$R                                                      11.04 10        030677.00
        KV,$X2,122K3B                                               31306.04 90        030677.40
        BXH,$+2.0                                                   30702.33 42        030700.00
        SIC,SEN            -SVA INTO IM IX INST IN INT MEM           1310.00 80        030700.40
        B,SERS            -FAILS TO STORE ANY BITS IN 0-17.          1304.10 00        030701.00
        B,12267                                                     30704.50 00        030701.40

        KV,$X2,122K3A                                               31305.04 90        030702.00
        BXL,$+1.0                                                   30703.72 42        030702.40
        B,$+1.32                                                    30704.50 00        030703.00
        SIC,SEN            -SVA INTO IM IX INST IN INT MEM           1310.00 80        030703.40
        B,SERS            -FAILS TO STORE ALL BITS IN 0-17.         1304.10 00        030704.00

12267   SX,$X1,$R                                                      11.03 10        030704.40
        LX,$X0,122K3C                                               31307.00 10        030705.00
        SVA,$X0,$R                                                     11.01 D0        030705.40
        LX,$X2,$R                                                      11.04 10        030706.00
        KV,$X2,122K3B                                               31306.04 90        030706.40
        BXH,$+1.0                                                   30710.33 42        030707.00
        B,$+2.0                                                     30711.50 00        030707.40
        SIC,SEN            -SVA INTO IM IX INST IN INT MEM           1310.00 80        030710.00
        B,SERS            -PICKS UP SOME BITS IN 0-17.              1304.10 00        030710.40
        B,12268                                                     30713.50 00        030711.00

        KV,$X2,122K3D                                               31310.04 90        030711.40
        BXH,$+1.32                                                  30713.73 42        030712.00
        SIC,SEN            -SVA INTO IM IX INST IN INT MEM           1310.00 80        030712.40
        B,SERS            -FAILS TO STORE BIT 18.                   1304.10 00        030713.00

12268   SX,$X1,$R                                                      11.03 10        030713.40
        LX,$X0,122K3D                                               31310.00 10        030714.00
        SVA,$X0,$R                                                     11.01 D0        030714.40
        LX,$X2,$R                                                      11.04 10        030715.00
        KV,$X2,122K3C                                               31307.04 90        030715.40
        BXL,$+2.0                                                   30720.32 42        030716.00
        SIC,SEN            -SVA INTO IM IX INST IN INT MEM           1310.00 80        030716.40
        B,SERS            -PICKS UP SOME BITS IN 0-18.              1304.10 00        030717.00
        B,12269                                                     30722.10 00        030717.40

        KV,$X2,122K3E                                               31311.04 90        030720.00
        BXE,$+1.32                                                  30722.32 C2        030720.40
        SIC,SEN            -SVA INTO IM IX INST IN INT MEM           1310.00 80        030721.00
        B,SERS            -STORES SOME BITS IN 19-23.               1304.10 00        030721.40
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12269   LX,$X0,122K3A                                                  31305.00 10        030722.00
        LX,$X1,122K5                                                   31316.02 10        030722.40
        SX,$X1,$X3                                                        23.03 10        030723.00
        SVA,$X0,$X3                                                       23.01 D0        030723.40
        LX,$X2,$X3                                                        23.04 10        030724.00
        KV,$X2,122K3B                                                  31306.04 90        030724.40
        BXH,$+2.0                                                      30727.33 42        030725.00
        SIC,SEN            -SVA INTO IM IX INST IN IX CORE STG          1310.00 80        030725.40
        B,SERS            -FAILS TO STORE ANY BITS IN 0-17.             1304.10 00        030726.00
        B,12270                                                        30731.50 00        030726.40

        KV,$X2,122K3A                                                  31305.04 90        030727.00
        BXL,$+1.0                                                      30730.72 42        030727.40
        B,$+1.32                                                       30731.50 00        030730.00
        SIC,SEN            -SVA INTO IM IX INST IN IX CORE STG          1310.00 80        030730.40
        B,SERS            -FAILS TO STORE ALL BITS IN 0-17.             1304.10 00        030731.00

12270   SX,$X1,$X3                                                        23.03 10        030731.40
        LX,$X0,122K3C                                                  31307.00 10        030732.00
        SVA,$X0,$X3                                                       23.01 D0        030732.40
        LX,$X2,$X3                                                        23.04 10        030733.00
        KV,$X2,122K3B                                                  31306.04 90        030733.40
        BXH,$+1.0                                                      30735.33 42        030734.00
        B,$+2.0                                                        30736.50 00        030734.40
        SIC,SEN            -SVA INTO IM IX INST IN IX CORE STG          1310.00 80        030735.00
        B,SERS            -PICKS UP SOME BITS IN 0-17.                  1304.10 00        030735.40
        B,12271                                                        30740.50 00        030736.00

        KV,$X2,122K3D                                                  31310.04 90        030736.40
        BXH,$+1.32                                                     30740.73 42        030737.00
        SIC,SEN            -SVA INTO IM IX INST IN IX CORE STG          1310.00 80        030737.40
        B,SERS            -FAILS TO STORE BIT 18.                       1304.10 00        030740.00

12271   SX,$X1,$X3                                                        23.03 10        030740.40
        LX,$X0,122K3D                                                  31310.00 10        030741.00
        SVA,$X0,$X3                                                       23.01 D0        030741.40
        LX,$X2,$X3                                                        23.04 10        030742.00
        KV,$X2,122K3C                                                  31307.04 90        030742.40
        BXL,$+2.0                                                      30745.32 42        030743.00
        SIC,SEN            -SVA INTO IM IX INST IN IX CORE STG          1310.00 80        030743.40
        B,SERS            -PICKS UP SOME BITS IN 0-18.                  1304.10 00        030744.00
        B,12272                                                        30747.10 00        030744.40

        KV,$X2,122K3E                                                  31311.04 90        030745.00
        BXE,$+1.32                                                     30747.32 C2        030745.40
        SIC,SEN            -SVA INTO IM IX INST IN IX CORE STG          1310.00 80        030746.00
        B,SERS            -STORES SOME BITS IN 19-23.                   1304.10 00        030746.40

12272   B,$+1.0                                                        30750.10 00        030747.00
        BD,12263                                                       30650.04 00        030747.40
        SIC,SEN0+.32                                                    1311.40 80        030750.00
        B,SSW             -TO SSIP.                                     1301.10 00        030750.40
        BD,$+.32                                                       30751.44 00        030751.00

        LX,$X13,IC222     -UPDATE CONTINUITY CHECK.                    31251.32 10        030751.40
        SC,$X13,$X12                                                      34.33 50        030752.00
        V+,$X12,BIT1                                                   33332.30 B0        030752.40
        LC,$X13,$X12                                                      34.32 50        030753.00
        SX,$X13,IC222                                                  31251.33 10        030753.40
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12273   LX,$X0,I22K3A        -CHECK STORE OF 19 BITS ONLY INTO       31305.00 10        030754.00
        LX,$X1,I22K6         -MISC INST, BITS 23-27 OF WHICH         31317.02 10        030754.40
        SX,$X1,I22WRK        -ARE 00000.                             31322.03 10        030755.00
        SVA,$X0,I22WRK                                               31322.01 D0        030755.40
        LX,$X2,I22WRK                                                31322.04 10        030756.00
        KV,$X2,I22K3B                                                31306.04 90        030756.40
        BXH,$+2.0                                                    30761.33 42        030757.00
        SIC,SEN             -SVA INTO MISC INST IN EXT MEM FAILS     1310.00 80         030757.40
        B,SERS              -TO STORE ANY BITS IN 0-17.              1304.10 00         030760.00
        B,12274                                                      30763.50 00        030760.40

        KV,$X2,I22K3A                                                31305.04 90        030761.00
        BXL,$+1.0                                                    30762.72 42        030761.40
        B,$+1.32                                                     30763.50 00        030762.00
        SIC,SEN             -SVA INTO MISC INST IN EXT MEM FAILS     1310.00 80         030762.40
        B,SERS              -TO STORE ALL BITS IN 0-17.              1304.10 00         030763.00

12274   SX,$X1,I22WRK                                                31322.03 10        030763.40
        LX,$X0,I22K3C                                                31307.00 10        030764.00
        SVA,$X0,I22WRK                                               31322.01 D0        030764.40
        LX,$X2,I22WRK                                                31322.04 10        030765.00
        KV,$X2,I22K3B                                                31306.04 90        030765.40
        BXH,$+1.0                                                    30767.33 42        030766.00
        B,$+2.0                                                      30770.50 00        030766.40
        SIC,SEN             -SVA INTO MISC INST IN EXT MEM           1310.00 80         030767.00
        B,SERS              -PICKS UP SOME BITS IN 0-17.             1304.10 00         030767.40
        B,12275                                                      30772.50 00        030770.00

        KV,$X2,I22K3D                                                31310.04 90        030770.40
        BXH,$+1.32                                                   30772.73 42        030771.00
        SIC,SEN             -SVA INTO MISC INST IN EXT MEM           1310.00 80         030771.40
        B,SERS              -FAILS TO STORE BIT 18.                  1304.10 00         030772.00

12275   SX,$X1,I22WRK                                                31322.03 10        030772.40
        LX,$X0,I22K3D                                                31310.00 10        030773.00
        SVA,$X0,I22WRK                                               31322.01 D0        030773.40
        LX,$X2,I22WRK                                                31322.04 10        030774.00
        KV,$X2,I22K3C                                                31307.04 90        030774.40
        BXL,$+2.0                                                    30777.32 42        030775.00
        SIC,SEN             -SVA INTO MISC INST IN EXT MEM           1310.00 80         030775.40
        B,SERS              -PICKS UP SOME BITS IN 0-18.             1304.10 00         030776.00
        B,12276                                                      31001.10 00        030776.40

        KV,$X2,I22K6                                                 31317.04 90        030777.00
        BXE,$+1.32                                                   31001.32 C2        030777.40
        SIC,SEN             -SVA INTO MISC INST IN EXT MEM           1310.00 80         031000.00
        B,SERS              -STORES SOME BITS IN 19-23.              1304.10 00         031000.40
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12276   LX,$X0,I22K3A                                              31305.00 10        031001.00
        LX,$X1,I22K6                                               31317.02 10        031001.40
        SX,$X1,$R                                                     11.03 10        031002.00
        SVA,$X0,$R                                                    11.01 D0        031002.40
        LX,$X2,$R                                                     11.04 10        031003.00
        KV,$X2,I22K3B                                              31306.04 90        031003.40
        BXH,$+2.0                                                  31006.33 42        031004.00
        SIC,SEN            -SVA INTO MISC INST IN INT MEM FAILS     1310.00 80        031004.40
        B,SERS             -TO STORE ANY BITS IN 0-17.             1304.10 00        031005.00
        B,I2277                                                    31010.50 00        031005.40

        KV,$X2,I22K3A                                              31305.04 90        031006.00
        BXL,$+1.0                                                  31007.72 42        031006.40
        B,$+1.32                                                   31010.50 00        031007.00
        SIC,SEN            -SVA INTO MISC INST IN INT MEM FAILS     1310.00 80        031007.40
        B,SERS             -TO STORE ALL BITS IN 0-17.             1304.10 00        031010.00

12277   SX,$X1,$R                                                     11.03 10        031010.40
        LX,$X0,I22K3C                                              31307.00 10        031011.00
        SVA,$X0,$R                                                    11.01 D0        031011.40
        LX,$X2,$R                                                     11.04 10        031012.00
        KV,$X2,I22K3B                                              31306.04 90        031012.40
        BXH,$+1.0                                                  31014.33 42        031013.00
        B,$+2.0                                                    31015.50 00        031013.40
        SIC,SEN            -SVA INTO MISC INST IN INT MEM           1310.00 80        031014.00
        B,SERS             -PICKS UP SOME BITS IN 0-17.            1304.10 00        031014.40
        B,I2278                                                    31017.50 00        031015.00

        KV,$X2,I22K3D                                              31310.04 90        031015.40
        BXH,$+1.32                                                 31017.73 42        031016.00
        SIC,SEN            -SVA INTO MISC INST IN INT MEM           1310.00 80        031016.40
        B,SERS             -FAILS TO STORE BIT 18.                 1304.10 00        031017.00

12278   SX,$X1,$R                                                     11.03 10        031017.40
        LX,$X0,I22K3D                                              31310.00 10        031020.00
        SVA,$X0,$R                                                    11.01 D0        031020.40
        LX,$X2,$R                                                     11.04 10        031021.00
        KV,$X2,I22K3C                                              31307.04 90        031021.40
        BXL,$+2.0                                                  31024.32 42        031022.00
        SIC,SEN            -SVA INTO MISC INST IN INT MEM           1310.00 80        031022.40
        B,SERS             -PICKS UP SOME BITS IN 0-18.            1304.10 00        031023.00
        B,I2279                                                    31026.10 00        031023.40

        KV,$X2,I22K6                                               31317.04 90        031024.00
        BXE,$+1.32                                                 31026.32 C2        031024.40
        SIC,SEN            -SVA INTO MISC INST IN INT MEM           1310.00 80        031025.00
        B,SERS             -STORES SOME BITS IN 19-23.             1304.10 00        031025.40
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12279   LX,$X0,122K3A                                           31305.00 10        031026.00
        LX,$X1,122K6                                            31317.02 10        031026.40
        SX,$X1,$X3                                                 23.03 10        031027.00
        SVA,$X0,$X3                                                23.01 D0        031027.40
        LX,$X2,$X3                                                 23.04 10        031030.00
        KV,$X2,122K3B                                           31306.04 90        031030.40
        BXH,$+2.0                                               31033.33 42        031031.00
        SIC,SEN          -SVA INTO MISC INST IN IX CORE STG      1310.00 80        031031.40
        B,SERS           -FAILS TO STORE ANY BITS IN 0-17.       1304.10 00        031032.00
        B,12280                                                 31035.50 00        031032.40

        KV,$X2,122K3A                                           31305.04 90        031033.00
        BXL,$+1.0                                               31034.72 42        031033.40
        B,$+1.32                                                31035.50 00        031034.00
        SIC,SEN          -SVA INTO MISC INST IN IX CORE STG      1310.00 80        031034.40
        B,SERS           -FAILS TO STORE ALL BITS IN 0-17.       1304.10 00        031035.00

12280   SX,$X1,$X3                                                 23.03 10        031035.40
        LX,$X0,122K3C                                           31307.00 10        031036.00
        SVA,$X0,$X3                                                23.01 D0        031036.40
        LX,$X2,$X3                                                 23.04 10        031037.00
        KV,$X2,122K3B                                           31306.04 90        031037.40
        BXH,$+1.0                                               31041.33 42        031040.00
        B,$+2.0                                                 31042.50 00        031040.40
        SIC,SEN          -SVA INTO MISC INST IN IX CORE STG      1310.00 80        031041.00
        B,SERS           -PICKS UP SOME BITS IN 0-17             1304.10 00        031041.40
        B,12281                                                 13774.50 00        031042.00

        KV,$X2,122K3D                                           31310.04 90        031042.40
        BXH,$+1.32                                              31044.73 42        031043.00
        SIC,SEN          -SVA INTO MISC INST IN IX CORE STG      1310.00 80        031043.40
        B,SERS           -FAILS TO STORE BIT 18.                 1304.10 00        031044.00

12281   SX,$X1,$X3                                                 23.03 10        031044.40
        LX,$X0,122K3D                                           31310.00 10        031045.00
        SVA,$X0,$X3                                                23.01 D0        031045.40
        LX,$X2,$X3                                                 23.04 10        031046.00
        KV,$X2,122K3C                                           31307.04 90        031046.40
        BXL,$+2.0                                               31051.32 42        031047.00
        SIC,SEN          -SVA INTO MISC INST IN IX CORE STG      1310.00 80        031047.40
        B,SERS           -PICKS UP SOME BITS IN 0-18.            1304.10 00        031050.00
        B,12282                                                 31053.10 00        031050.40

        KV,$X2,122K6                                            31317.04 90        031051.00
        BXE,$+1.32                                              31053.32 C2        031051.40
        SIC,SEN          -SVA INTO MISC INST IN IX CORE STG      1310.00 80        031052.00
        B,SERS           -STORE SOME BITS IN 19-23.              1304.10 00        031052.40

12282   B,$+1.0                                                 31054.10 00        031053.00
        BD,12273                                                30754.04 00        031053.40
        SIC,SENO+.32                                             1311.40 80        031054.00
        B,SSW            -TO SSIP.                                1301.10 00        031054.40
        BD,$+.32                                                31055.44 00        031055.00

        LX,$X13,IC222    -UPDATE CONTINUITY CHECK.              31251.32 10        031055.40
        SC,$X13,$X12                                               34.33 50        031056.00
        V+,$X12,BIT2                                            33333.30 B0        031056.40
        LC,$X13,$X12                                               34.32 50        031057.00
        SX,$X13,IC222                                           31251.33 10        031057.40
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12283    LX,$X0,100Z        -CHECK THAT AN 18 BIT STORE DOES      33311.00 10                        031060.00
         LX,$X1,122K7       -NOT CORRUPT BITS 18-23.              31320.02 10                        031060.40
         SX,$X1,122WRK                                            31322.03 10                        031061.00
         SVA,$X0,122WRK                                           31322.01 D0                        031061.40
         LX,$X2,122WRK                                            31322.04 10                        031062.00
         KV,$X2,122K7                                             31320.04 90                        031062.40
         BXE,$+1.32                                               31064.72 C2                        031063.00
         SIC,SEN            -SVA INTO FP INST IN EXT MEM          1310.00 80                         031063.40
         B,SERS             -CORRUPTS BITS 18-23.                 1304.10 00                         031064.00

         L%BU□,122K7                                              31320.00 80 000000.20 50           031064.40
         SVA,$X0,$R                                               11.01 D0                           031065.40
         LX,$X2,$R                                                11.04 10                           031066.00
         KV,$X2,122K7                                             31320.04 90                        031066.40
         BXE,$+1.32                                               31070.72 C2                        031067.00
         SIC,SEN            -SVA INTO FP INST IN INT MEM          1310.00 80                         031067.40
         B,SERS             -CORRUPTS BITS 18-23.                 1304.10 00                         031070.00

         LX,$X1,122K7                                             31320.02 10                        031070.40
         SVA,$X0,$X1                                              21.01 D0                           031071.00
         KV,$X1,122K7                                             31320.02 90                        031071.40
         BXE,$+1.32                                               31073.72 C2                        031072.00
         SIC,SEN            -SVA INTO FP INST IN IX CORE STG      1310.00 80                         031072.40
         B,SERS             -CORRUPTS BITS 18-23.                 1304.10 00                         031073.00

         LX,$X0,100Z        -CHECK THAT A 19 BIT STORE DOES       33311.00 10                        031073.40
         LX,$X1,122K8       -NOT CORRUPT BITS 19-23               31321.02 10                        031074.00
         SX,$X1,122WRK                                            31322.03 10                        031074.40
         SVA,$X0,122WRK                                           31322.01 D0                        031075.00
         LX,$X2,122WRK                                            31322.04 10                        031075.40
         KV,$X2,122K8                                             31321.04 90                        031076.00
         BXE,$+1.32                                               31100.32 C2                        031076.40
         SIC,SEN            -SVA INTO DIR IX INST IN EXT MEM      1310.00 80                         031077.00
         B,SERS             -CORRUPTS BITS 19-23.                 1304.10 00                         031077.40

         L%BU□,122K8                                              31321.00 80 000000.20 50           031100.00
         SVA,$X0,$R                                               11.01 D0                           031101.00
         LX,$X2,$R                                                11.04 10                           031101.40
         KV,$X2,122K8                                             31321.04 90                        031102.00
         BXE,$+1.32                                               31104.32 C2                        031102.40
         SIC,SEN            -SVA INTO DIR IX INST IN INT MEM      1310.00 80                         031103.00
         B,SERS             -CORRUPTS BITS 19-23.                 1304.10 00                         031103.40

         SVA,$X0,$X1                                              21.01 D0                           031104.00
         KV,$X1,122K8                                             31321.02 90                        031104.40
         BXE,$+1.32                                               31106.72 C2                        031105.00
         SIC,SEN            -SVA INTO DIR IX INST IN IX CORE STG  1310.00 80                         031105.40
         B,SERS             -CORRUPTS BITS 19-23.                 1304.10 00                         031106.00

         B,$+1.0                                                  31107.50 00                        031106.40
         BD,12283                                                 31060.04 00                        031107.00
         SIC,SENO+.32                                             1311.40 80                         031107.40
         B,SSW              -TO SSIP.                             1301.10 00                         031110.00
         BD,$+.32                                                 31111.04 00                        031110.40

         LX,$X13,IC222      -UPDATE CONTINUITY CHECK.             31251.32 10                        031111.00
         SC,$X13,$X12                                             34.33 50                           031111.40
         V+,$X12,BIT3                                             33334.30 B0                        031112.00
         LC,$X13,$X12                                             34.32 50                           031112.40
         SX,$X13,IC222                                            31251.33 10                        031113.00
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```
12284   LX,$X0,1000      -CHECK SV AND SVA INTO 1.0        33312.00 10      031113.40
        SV,$X0,1.0                                         1.01 30          031114.00
        NOP                                                0.30 00          031114.40
        NOP                                                0.30 00          031115.00
        NOP                                                0.30 00          031115.40
        NOP                                                0.30 00          031116.00
        NOP                                                0.30 00          031116.40
        LX,$X1,1.0                                         1.02 10          031117.00
        KV,$X1,1000                                        33312.02 90      031117.40
        BXE,12285                                          31126.32 C2      031120.00
        SV,$X0,1.0       -NOT OK, TRY AGAIN SINCE CLOCK    1.01 30          031120.40
        NOP              -MAY HAVE STEPPED.                0.30 00          031121.00
        NOP                                                0.30 00          031121.40
        NOP                                                0.30 00          031122.00
        NOP                                                0.30 00          031122.40
        NOP                                                0.30 00          031123.00
        LX,$X1,1.0                                         1.02 10          031123.40
        KV,$X1,1000                                        33312.02 90      031124.00
        BXE,$+1.32                                         31126.32 C2      031124.40
        SIC,SEN                                            1310.00 80       031125.00
        B,SERS           -SV OF ALL ONES TO 1.0 FAILS.     1304.10 00       031125.40

12285   LX,$X0,100Z                                        33311.00 10      031126.00
        LX,$X2,1000                                        33312.04 10      031126.40
        SV,$X2,1.0                                         1.05 30          031127.00
        SV,$X0,1.0                                         1.01 30          031127.40
        NOP                                                0.30 00          031130.00
        NOP                                                0.30 00          031130.40
        NOP                                                0.30 00          031131.00
        NOP                                                0.30 00          031131.40
        NOP                                                0.30 00          031132.00
        LX,$X1,1.0                                         1.02 10          031132.40
        KV,$X1,100Z                                        33311.02 90      031133.00
        BXE,12286                                          31142.72 C2      031133.40
        LX,$X2,1000                                        33312.04 10      031134.00
        SV,$X2,1.0                                         1.05 30          031134.40
        SV,$X0,1.0       -NOT OK, TRY AGAIN SINCE CLOCK    1.01 30          031135.00
        NOP              -MAY HAVE STEPPED.                0.30 00          031135.40
        NOP                                                0.30 00          031136.00
        NOP                                                0.30 00          031136.40
        NOP                                                0.30 00          031137.00
        NOP                                                0.30 00          031137.40
        LX,$X1,1.0                                         1.02 10          031140.00
        KV,$X1,100Z                                        33311.02 90      031140.40
        BXE,$+1.32                                         31142.72 C2      031141.00
        SIC,SEN                                            1310.00 80       031141.40
        B,SERS           -SV OF ALL ZEROES TO 1.0 FAILS.   1304.10 00       031142.00
```

12286	LX,$X0,100Z	-CHECK SV WILL NOT GO TO 1.32.	33311.00 10	031142.40
	LX,$X1,1000		33312.02 10	031143.00
	LX,$X2,0.0		0.04 10	031143.40
12286A	SV,$X0,1.32		1.41 30	031144.00
	LX,$X3,1.0		1.06 10	031144.40
	SV,$X1,1.32		1.43 30	031145.00
	LX,$X4,1.0		1.10 10	031145.40
	SR,$X3,$X3	-IF REFILLS OF X3 AND X4 ARE EQUAL,	23.07 70	031146.00
	SR,$X4,$X4	-THEN SV TO 1.32 OK. IF NOT SAME	24.11 70	031146.40
	KV,$X3,$X4	-THEN REPEAT TEST ONCE MORE.	24.06 90	031147.00
	BXE,12287		31153.72 C2	031147.40
	LX,$X2,$X2		22.04 10	031150.00
	BXCZ,$+1.0		31151.70 42	031150.40
	B,12286B		31152.50 00	031151.00
	LX,$X2,BIT30		33367.04 10	031151.40
	B,12286A		31144.10 00	031152.00
12286B	SIC,SEN	-SV TO 1.32 PERMITS DATA TO ENTER,	1310.00 80	031152.40
	B,SERS	-SV ERROR.	1304.10 00	031153.00
12287	B,$+1.0		31154.50 00	031153.40
	BD,12284		31113.44 00	031154.00
	SIC,SEN0+.32		1311.40 80	031154.40
	B,SSW	-TO SSIP.	1301.10 00	031155.00
	BD,$+.32		31156.04 00	031155.40
	LX,$X13,IC222	-UPDATE CONTINUITY CHECK.	31251.32 10	031156.00
	SC,$X13,$X12		34.33 50	031156.40
	V+,$X12,BIT4		33335.30 B0	031157.00
	LC,$X13,$X12		34.32 50	031157.40
	SX,$X13,IC222		31251.33 10	031160.00
12288	LX,$X0,1000		33312.00 10	031160.40
	LX,$X2,100Z		33311.04 10	031161.00
	SV,$X2,1.0		1.05 30	031161.40
	SVA,$X0,1.0		1.01 D0	031162.00
	NOP		0.30 00	031162.40
	NOP		0.30 00	031163.00
	NOP		0.30 00	031163.40
	NOP		0.30 00	031164.00
	NOP		0.30 00	031164.40
	LX,$X1,1.0		1.02 10	031165.00
	KVI,$X1,%8□1777777		777777.43 04	031165.40
	BXE,12289		31174.32 C2	031166.00
	SV,$X2,1.0	-NOT OK, TRY AGAIN SINCE CLOCK	1.05 30	031166.40
	SVA,$X0,1.0	-MAY HAVE STEPPED.	1.01 D0	031167.00
	NOP		0.30 00	031167.40
	NOP		0.30 00	031170.00
	NOP		0.30 00	031170.40
	NOP		0.30 00	031171.00
	LX,$X1,1.0		1.02 10	031171.40
	KVI,$X1,%8□1777777		777777.43 04	031172.00
	BXE,$+1.32		31174.32 C2	031172.40
	SIC,SEN		1310.00 80	031173.00
	B,SERS	-SVA,19 BITS,OF ALL ONES TO 1.0 FAILS.	1304.10 00	031173.40

```
12289   LX,$X0,100Z                                          33311.00 10        031174.00
        SVA,$X0,1.0                                              1.01 D0        031174.40
        NOP                                                      0.30 00        031175.00
        NOP                                                      0.30 00        031175.40
        NOP                                                      0.30 00        031176.00
        NOP                                                      0.30 00        031176.40
        NOP                                                      0.30 00        031177.00
        LX,$X1,1.0                                               1.02 10        031177.40
        KV,$X1,100Z        zero?                             33311.02 90        031200.00
        BXE,12290                                            31207.32 C2        031200.40
        LX,$X1,1000.        -NOT OK, TRY AGAIN SINCE CLOCK   33312.02 10        031201.00
        SV,$X1,1.0          -MAY HAVE STEPPED.                   1.03 30        031201.40
        SVA,$X0,1.0                                              1.01 D0        031202.00
        NOP                                                      0.30 00        031202.40
        NOP                                                      0.30 00        031203.00
        NOP                                                      0.30 00        031203.40
        NOP                                                      0.30 00        031204.00
        LX,$X1,1.0                                               1.02 10        031204.40
        KV,$X1,100Z                                          33311.02 90        031205.00
        BXE,$+1.32                                           31207.32 C2        031205.40
        SIC,SEN                                              1310.00 80         031206.00
        B,SERS             -SVA, 19 BITS, ALL ZEROS TO 1.0 FAILS.  1304.10 00   031206.40

12290   LX,$X0,100Z                                          33311.00 10        031207.00
        LX,$X1,122K3D                                        31310.02 10        031207.40
        SV,$X0,1.0                                               1.01 30        031210.00
        SVA,$X1,1.0                                              1.03 D0        031210.40
        LX,$X2,1.0                                               1.04 10        031211.00
        KV,$X2,122K3E                                        31311.04 90        031211.40
        BXL,12291                                            31216.32 42        031212.00
        SV,$X0,1.0         -SVA INTO 1.0 ALTERS 19-23 WHEN 1.24   1.01 30       031212.40
        SVA,$X1,1.0        -IS 0, TRY AGAIN.                      1.03 D0       031213.00
        LX,$X2,1.0                                               1.04 10        031213.40
        KV,$X2,122K3E                                        31311.04 90        031214.00
        BXL,$+1.32                                           31216.32 42        031214.40
        SIC,SEN            -SVA INTO 1.0 ALTERS 19-23 WHEN 1.24  1310.00 80     031215.00
        B,SERS             -IS 0.                             1304.10 00         031215.40

12291   LX,$X0,BIT24                                         33361.00 10        031216.00
        LX,$X1,122K3D                                        31310.02 10        031216.40
        SV,$X0,1.0                                               1.01 30        031217.00
        SVA,$X1,1.0                                              1.03 D0        031217.40
        LX,$X2,1.0                                               1.04 10        031220.00
        KV,$X2,100Z                                          33311.04 90        031220.40
        BXL,12292-.32                                        31225.32 42        031221.00
        SV,$X0,1.0         -TRY AGAIN.                           1.01 30        031221.40
        SVA,$X1,1.0                                              1.03 D0        031222.00
        LX,$X2,1.0                                               1.04 10        031222.40
        KV,$X2,100Z                                          33311.04 90        031223.00
        BXL,$+1.32                                           31225.32 42        031223.40
        SIC,SEN            -SVA INTO 1.0 FAILS TO ALTER 19-23  1310.00 80       031224.00
        B,SERS             -WHEN 1.24 IS 1.                   1304.10 00         031224.40
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          Z,$X2                                                      22.22 00             031225.00
                                                                        -
12292     LX,$X0,100Z      -CHK SVA DOES NOT GO TO 1.32.          33311.00 10             031225.40
          LX,$X1,1000                                             33312.02 10             031226.00
          SVA,$X0,1.32                                                1.41 DO             031226.40
          LX,$X3,1.0                                                  1.06 10             031227.00
          SVA,$X1,1.32                                                1.43 DO             031227.40
          LX,$X4,1.0                                                  1.10 10             031230.00
                                                                        -
          SR,$X3,$X3       -IF REFILLS OF X3 AND X4.ARE EQUAL,       23.07 70             031230.40
          SR,$X4,$X4       -THEN SVA TO 1.32 OK. IF NOT SAME        24.11 70             031231.00
          KV,$X3,$X4       -THEN REPEAT TEST ONCE MORE.            24.06 90             031231.40
          BXE,12293                                                31236.32 C2            031232.00
                                                                        -
          LX,$X2,$X2                                                  22.04 10             031232.40
          BXCZ,$+1.0                                               31234.30 42            031233.00
          B,12292A                                                 31235.10 00            031233.40
          LX,$X2,BIT30                                             33367.04 10            031234.00
          B,12292                                                  31225.50 00            031234.40
                                                                        -
12292A    SIC,SEN          -SVA TO 1.32 PERMITS DATA TO ENTER,    1310.00 80             031235.00
          B,SERS           -SVA ERROR,                            1304.10 00             031235.40
                                                                        -
12293     B,$+1.0                                                 31237.10 00            031236.00
          BD,12288                                                31160.44 00            031236.40
          SIC,SEN0+.32                                            1311.40 80             031237.00
          B,SSW            -TO SSIP.                               1301.10 00             031237.40
          BD,$+.32                                                31240.44 00            031240.00
                                                                        -
          LX,$X13,IC222    -UPDATE CONTINUITY CHECK.              31251.32 10            031240.40
          SC,$X13,$X12                                              34.33 50             031241.00
          V+,$X12,BIT5                                            33336.30 B0            031241.40
          LC,$X13,$X12                                              34.32 50             031242.00
          SX,$X13,IC222                                           31251.33 10            031242.40
                                                                        -
          LX,$X13,IC222    -UPDATE CONTINUITY CHECK.              31251.32 10            031243.00
          KV,$X13,ICK222                                          31252.32 90            031243.40
          SIC,SEN                                                 1310.00 80             031244.00
          BZXE,SERS        -CONTINUITY ERROR.                     1304.32 C0             031244.40
          SC,$X13,$X13                                              35.33 50             031245.00
          LX,$X12,ICK222                                          31252.30 10            031245.40
          SC,$X12,$X12                                              34.31 50             031246.00
          KV,$X13,$X12                                              34.32 90             031246.40
          SIC,SEN                                                 1310.00 80             031247.00
          BZXE,SERS        -CONTINUITY ERROR.                     1304.32 C0             031247.40
          B,124                                                   31325.10 00            031250.00
          CNOP                                                       0.30 00             031250.40
IC222     XW,0,0,0         -CONTINUITY REG 1222.                    0.00 00 000000.00 00 031251.00
ICK222    XW,%8¤777777.77,%8¤770000,0                             777777.77 0F 600000.00 00 031252.00
```

```
              CNOP                   -CONSTANTS FOR 1222
IBIT0    XW,%8¤-400000.0,0,0                    400000.00 80 000000.00 00      031253.00
IBIT1    XW,%8¤-200000.0,0,0                    200000.00 80 000000.00 00      031254.00
IBIT2    XW,%8¤-100000.0,0,0                    100000.00 80 000000.00 00      031255.00
IBIT3    XW,%8¤-40000.0,0,0                      40000.00 80 000000.00 00      031256.00
IBIT4    XW,%8¤-20000.0,0,0                      20000.00 80 000000.00 00      031257.00
IBIT5    XW,%8¤-10000.0,0,0                      10000.00 80 000000.00 00      031260.00
IBIT6    XW,%8¤-4000.00,0,0                       4000.00 80 000000.00 00      031261.00
IBIT7    XW,%8¤-2000.0,0,0                        2000.00 80 000000.00 00      031262.00
IBIT8    XW,%8¤-1000.0,0,0                        1000.00 80 000000.00 00      031263.00
IBIT9    XW,%8¤-400.0,0,0                          400.00 80 000000.00 00      031264.00
IBIT10   XW,%8¤-200.0,0,0                          200.00 80 000000.00 00      031265.00
IBIT11   XW,%8¤-100.0,0,0                          100.00 80 000000.00 00      031266.00
IBIT12   XW,%8¤-40.0,0,0                            40.00 80 000000.00 00      031267.00
IBIT13   XW,%8¤-20.0,0,0                            20.00 80 000000.00 00      031270.00
IBIT14   XW,%8¤-10.0,0,0                            10.00 80 000000.00 00      031271.00
IBIT15   XW,%8¤-4.0,0,0                              4.00 80 000000.00 00      031272.00
IBIT16   XW,%8¤-2.0,0,0                              2.00 80 000000.00 00      031273.00
IBIT17   XW,%8¤-1.0,0,0                              1.00 80 000000.00 00      031274.00
IBIT18   XW,%8¤-0.40,0,0                            0.40 80 000000.00 00      031275.00
IBIT19   XW,%8¤-0.20,0,0                            0.20 80 000000.00 00      031276.00
IBIT20   XW,%8¤-0.10,0,0                            0.10 80 000000.00 00      031277.00
IBIT21   XW,%8¤-0.04,0,0                            0.04 80 000000.00 00      031300.00
IBIT22   XW,%8¤-0.02,0,0                            0.02 80 000000.00 00      031301.00
IBIT23   XW,%8¤-0.01,0,0                            0.01 80 000000.00 00      031302.00

122K1    $L%BU¤,0                                   0.00 80 000000.20 50       031303.00
122K2    L%N¤,0              -FP LOAD.             0.00 60                     031304.00
         NOP                                       0.30 00                     031304.40
122K3A   XW,%8¤777777.0,0,0  -TEST WD.   777777.00 00 000000.00 00             031305.00
122K3B   XW,%8¤0.77,0,0      -TEST WD.             0.77 00 000000.00 00       031306.00
122K3C   XW,0.32,0,0         -TEST WD.             0.40 00 000000.00 00       031307.00
122K3D   XW,0.31,0,0         -TEST WD.             0.37 00 000000.00 00       031310.00
122K3E   XW,0.01,0,0         -TEST WD.             0.01 00 000000.00 00       031311.00
122K3F   XW,-0.63,0,0        -TEST WORD.           0.77 80 000000.00 00       031312.00
122K3G   XW,-0.31,0,0        -TEST WORD.           0.37 80 000000.00 00       031313.00
122K4    LV,$X0,0                                  0.00 30                     031314.00
         NOP                                       0.30 00                     031314.40
122K4A   $BMK,0                                    0.00 42                     031315.00
         NOP                                       0.30 00                     031315.40
122K5    LVI,$X0,0                                 0.01 01                     031316.00
         NOP                                       0.30 00                     031316.40
122K6    R,0                                       0.02 00                     031317.00
         NOP                                       0.30 00                     031317.40
122K7    %8¤DD%BU,32,8¤,37540            00000037540                           031320.00
         NOP                                       0.30 00                     031320.40
122K8    $RNX,$X15,0                               0.37 F0                     031321.00
         NOP                                       0.30 00                     031321.40

122WRK   DR%BU,64,8¤,1                             1.00                        031322.00
         XW,0,0,0                                  0.00 00 000000.00 00       031323.00
122DMP   XW,0,0,0                                  0.00 00 000000.00 00       031324.00
```

```
                  ----1224---TEST STORE COUNT.

                  -THIS ROUTINE CHECKS STORE COUNT DATA,BIT BY       -
                  -BIT, AND CONTROL.

                                                                     -

           -                     -THIS TEST CHECKS THE STORING
                                 -OF ALL BIT POSITIONS OF THE
                                 -COUNT FIELD ALSO THE RESET
                                 -OF BITS 18 TO 24
                  -
  124      LX,$X0,124NAM         -PLACE INDENTIFICATION INTO          31631.00 10        031325.00
           SX,$X0,DPET13         -SSIP                                 1437.01 10        031325.40
           SIC,RET                                                     1306.40 80        031326.00
                  B,IDF1         -PRINT ID.                            1443.10 00        031326.40
           Z,IC224                                                    31627.22 00        031327.00
                  -
           LX,$X1,1000           -PLACE ONES IN STORE LOCATION         33312.02 10       031327.40
           SX,$X1,124DUP                                              31632.03 10        031330.00
                                 -TEST BIT 45
  1241     LX,$X0,BIT45          -WORD WITH 1 AT BIT 45                33406.00 10        031330.40
           SC,$X0,124DUP         -EXT MEM                             31632.01 50        031331.00
           KC,$X0,124DUP                                              31632.01 90        031331.40
           SIC,SEN               -FAILED TO PROPERLY STORE             1310.00 80        031332.00
           BZXE,SERS             -INTO BIT 17 OF MEM LOC               1304.32 C0        031332.40
           SC,$X0,$X2            -INDEX STORAGE                          22.01 50        031333.00
           KC,$X0,$X2                                                    22.01 90        031333.40
           SIC,SEN               -FAILED TO PROPERLY STORE             1310.00 80        031334.00
           BZXE,SERS             -INTO BIT 17 OF INDEX ST              1304.32 C0        031334.40
           SC,$X0,$R             -INTERNAL REGISTER                      11.01 50        031335.00
           KC,$X0,$R                                                     11.01 90        031335.40
           SIC,SEN               -FAILED TO PROPERLY STORE             1310.00 80        031336.00
           BZXE,SERS             -INTO BIT 17 OF INT REG               1304.32 C0        031336.40
                                 -TEST BIT 44
  1242     LX,$X0,BIT44          -WORD WITH 1 AT BIT 44                33405.00 10        031337.00
           SC,$X0,124DUP         -EXT MEM                             31632.01 50        031337.40
           KC,$X0,124DUP                                              31632.01 90        031340.00
           SIC,SEN               -FAILED TO PROPERLY STORE             1310.00 80        031340.40
           BZXE,SERS             -INTO BIT 16 OF MEM LOC               1304.32 C0        031341.00
           SC,$X0,$X2            -INDEX STORAGE                          22.01 50        031341.40
           KC,$X0,$X2                                                    22.01 90        031342.00
           SIC,SEN               -FAILED TO PROPERLY STORE             1310.00 80        031342.40
           BZXE,SERS             -INTO BIT 16 OF INDEX ST              1304.32 C0        031343.00
           SC,$X0,$R             -INTERNAL REGISTER                      11.01 50        031343.40
           KC,$X0,$R                                                     11.01 90        031344.00
           SIC,SEN               -FAILED TO PROPERLY STORE             1310.00 80        031344.40
           BZXE,SERS             -INTO BIT 16 OF INT REG               1304.32 C0        031345.00
           B,$+1.0                                                    31346.50 00        031345.40
           BD,124                                                     31325.04 00        031346.00
           SIC,SEN0+.32                                               1311.40 80        031346.40
           B,SSW                                                      1301.10 00        031347.00
           BD,$+.32                                                   31350.04 00        031347.40
                                                                     -
           LX,$X13,IC224         -UPDATE CONTINUITY CHECK.            31627.32 10        031350.00
           V+,$X13,BIT0                                               33331.32 B0        031350.40
           SX,$X13,IC224                                              31627.33 10        031351.00
                                 -TEST BIT 43
  1243     LX,$X0,BIT43          -WORD WITH 1 AT BIT 43                33404.00 10        031351.40
           SC,$X0,124DUP         -EXT MEM                             31632.01 50        031352.00
           KC,$X0,124DUP                                              31632.01 90        031352.40
           SIC,SEN               -FAILED TO PROPERLY STORE             1310.00 80        031353.00
           BZXE,SERS             -INTO BIT 15 OF MEM LOC               1304.32 C0        031353.40
```

	SC,$X0,$X2	-INDEX STORAGE	22.01 50	031354.00
	KC,$X0,$X2		22.01 90	031354.40
	SIC,SEN	-FAILED TO PROPERLY STORE	1310.00 80	031355.00
	BZXE,SERS	-INTO BIT 15 OF INDEX ST	1304.32 C0	031355.40
	SC,$X0,$R	-INTERNAL REGISTER	11.01 50	031356.00
	KC,$X0,$R		11.01 90	031356.40
	SIC,SEN	-FAILED TO PROPERLY STORE	1310.00 80	031357.00
	BZXE,SERS	-INTO BIT 15 OF INT REG	1304.32 C0	031357.40
		-TEST BIT 42		
1244	LX,$X0,BIT42	-WORD WITH 1 AT BIT 42	33403.00 10	031360.00
	SC,$X0,124DUP	-EXT MEM	31632.01 50	031360.40
	KC,$X0,124DUP		31632.01 90	031361.00
	SIC,SEN	-FAILED TO PROPERLY STORE	1310.00 80	031361.40
	BZXE,SERS	-INTO BIT 14 OF MEM LOC	1304.32 C0	031362.00
	SC,$X0,$X2	-INDEX STORAGE	22.01 50	031362.40
	KC,$X0,$X2		22.01 90	031363.00
	SIC,SEN	-FAILED TO PROPERLY STORE	1310.00 80	031363.40
	BZXE,SERS	-INTO BIT 14 OF INDEX ST	1304.32 C0	031364.00
	SC,$X0,$R	-INTERNAL REGISTER	11.01 50	031364.40
	KC,$X0,$R		11.01 90	031365.00
	SIC,SEN	-FAILED TO PROPERLY STORE	1310.00 80	031365.40
	BZXE,SERS	-INTO BIT 14 OF INT REG	1304.32 C0	031366.00
		-TEST BIT 41		
1245	LX,$X0,BIT41	-WORD WITH 1 AT BIT 41	33402.00 10	031366.40
	SC,$X0,124DUP	-EXT MEM	31632.01 50	031367.00
	KC,$X0,124DUP		31632.01 90	031367.40
	SIC,SEN	-FAILED TO PROPERLY STORE	1310.00 80	031370.00
	BZXE,SERS	-INTO BIT 13 OF MEM LOC	1304.32 C0	031370.40
	SC,$X0,$X2	-INDEX STORAGE	22.01 50	031371.00
	KC,$X0,$X2		22.01 90	031371.40
	SIC,SEN	-FAILED TO PROPERLY STORE	1310.00 80	031372.00
	BZXE,SERS	-INTO BIT 13 OF INDEX ST	1304.32 C0	031372.40
	SC,$X0,$R	-INTERNAL REGISTER	11.01 50	031373.00
	KC,$X0,$R		11.01 90	031373.40
	SIC,SEN	-FAILED TO PROPERLY STORE	1310.00 80	031374.00
	BZXE,SERS	-INTO BIT 13 OF INT REG	1304.32 C0	031374.40
	B,$+1.0		31376.10 00	031375.00
	BD,1243		31351.44 00	031375.40
	SIC,SEN0+.32		1311.40 80	031376.00
	B,SSW		1301.10 00	031376.40
	BD,$+.32		31377.44 00	031377.00
	LX,$X13,IC224	-UPDATE CONTINUITY CHECK.	31627.32 10	031377.40
	V+,$X13,BIT1		33332.32 B0	031400.00
	SX,$X13,IC224		31627.33 10	031400.40
		-TEST BIT 40		
1246	LX,$X0,BIT40	-WORD WITH 1 AT BIT 40	33401.00 10	031401.00
	SC,$X0,124DUP	-EXT MEM	31632.01 50	031401.40
	KC,$X0,124DUP		31632.01 90	031402.00
	SIC,SEN	-FAILED TO PROPERLY STORE	1310.00 80	031402.40
	BZXE,SERS	-INTO BIT 12 OF MEM LOC	1304.32 C0	031403.00
	SC,$X0,$X2	-INDEX STORAGE	22.01 50	031403.40

```
            KC,$X0,$X2                                              22.01 90      031404.00
            SIC,SEN           -FAILED TO PROPERLY STORE          1310.00 80      031404.40
            BZXE,SERS         -INTO BIT 12 OF INDEX ST           1304.32 CO      031405.00
            SC,$X0,$R         -INTERNAL REGISTER                   11.01 50      031405.40
            KC,$X0,$R                                              11.01 90      031406.00
            SIC,SEN           -FAILED TO PROPERLY STORE          1310.00 80      031406.40
            BZXE,SERS         -INTO BIT 12 OF INT REG            1304.32 CO      031407.00
                              -TEST BIT 39
1247        LX,$X0,BIT39      -WORD WITH 1 AT BIT 39            33400.00 10      031407.40
            SC,$X0,124DUP     -EXT MEM                          31632.01 50      031410.00
            KC,$X0,124DUP                                       31632.01 90      031410.40
            SIC,SEN           -FAILED TO PROPERLY STORE          1310.00 80      031411.00
            BZXE,SERS         -INTO BIT 11 OF MEM LOC           1304.32 CO      031411.40
            SC,$X0,$X2        -INDEX STORAGE                       22.01 50      031412.00
            KC,$X0,$X2                                             22.01 90      031412.40
            SIC,SEN           -FAILED TO PROPERLY STORE          1310.00 80      031413.00
            BZXE,SERS         -INTO BIT 11 OF INDEX ST          1304.32 CO      031413.40
            SC,$X0,$R         -INTERNAL REGISTER                   11.01 50      031414.00
            KC,$X0,$R                                              11.01 90      031414.40
            SIC,SEN           -FAILED TO PROPERLY STORE          1310.00 80      031415.00
            BZXE,SERS         -INTO BIT 11 OF INT REG            1304.32 CO      031415.40
                              -TEST BIT 38
1248        LX,$X0,BIT38      -WORD WITH 1 AT BIT 38            33377.00 10      031416.00
            SC,$X0,124DUP     -EXT MEM                          31632.01 50      031416.40
            KC,$X0,124DUP                                       31632.01 90      031417.00
            SIC,SEN           -FAILED TO PROPERLY STORE          1310.00 80      031417.40
            BZXE,SERS         -INTO BIT 10 OF MEM LOC           1304.32 CO      031420.00
            SC,$X0,$X2        -INDEX STORAGE                       22.01 50      031420.40
            KC,$X0,$X2                                             22.01 90      031421.00
            SIC,SEN           -FAILED TO PROPERLY STORE          1310.00 80      031421.40
            BZXE,SERS         -INTO BIT 10 OF INDEX ST          1304.32 CO      031422.00
            SC,$X0,$R         -INTERNAL REGISTER                   11.01 50      031422.40
            KC,$X0,$R                                              11.01 90      031423.00
            SIC,SEN           -FAILED TO PROPERLY STORE          1310.00 80      031423.40
            BZXE,SERS         -INTO BIT 10 OF INT REG            1304.32 CO      031424.00
            B,$+1.0                                             31425.50 00      031424.40
            BD,1246                                             31401.04 00      031425.00
            SIC,SENO+.32                                         1311.40 80      031425.40
            B,SSW                                                1301.10 00      031426.00
            BD,$+.32                                            31427.04 00      031426.40

            LX,$X13,IC224     -UPDATE CONTINUITY CHECK.         31627.32 10      031427.00
            V+,$X13,BIT2                                        33333.32 B0      031427.40
            SX,$X13,IC224                                       31627.33 10      031430.00
                              -TEST BIT 37
1249        LX,$X0,BIT37      -WORD WITH 1 AT BIT 37            33376.00 10      031430.40
```

```
              SC,$X0,124DUP         -EXT MEM                        31632.01 50         031431.00
              KC,$X0,124DUP                                         31632.01 90         031431.40
              SIC,SEN              -FAILED TO PROPERLY STORE        1310.00 80          031432.00
              BZXE,SERS            -INTO BIT 9  OF MEM LOC          1304.32 CO          031432.40
              SC,$X0,$X2          -INDEX STORAGE                   22.01 50            031433.00
              KC,$X0,$X2                                           22.01 90            031433.40
              SIC,SEN             -FAILED TO PROPERLY STORE         1310.00 80          031434.00
              BZXE,SERS           -INTO BIT 9 OF INDEX ST           1304.32 CO          031434.40
              SC,$X0,$R           -INTERNAL REGISTER                11.01 50            031435.00
              KC,$X0,$P                                             11.01 90            031435.40
              SIC,SEN             -FAILED TO PROPERLY STORE         1310.00 80          031436.00
              BZXE,SERS           -INTO BIT 9  OF INT REG           1304.32 CO          031436.40
                                  -TEST BIT 36
     12410    LX,$X0,BIT36        -WORD WITH 1 AT BIT 36           33375.00 10          031437.00
              SC,$X0,124DUP       -EXT MEM                         31632.01 50          031437.40
              KC,$X0,124DUP                                        31632.01 90          031440.00
              SIC,SEN             -FAILED TO PROPERLY STORE        1310.00 80           031440.40
              BZXE,SERS           -INTO BIT 8  OF MEM LOC          1304.32 CO           031441.00
              SC,$X0,$X2          -INDEX STORAGE                   22.01 50             031441.40
              KC,$X0,$X2                                           22.01 90             031442.00
              SIC,SEN             -FAILED TO PROPERLY STORE        1310.00 80           031442.40
              BZXE,SERS           -INTO BIT 8  OF INDEX ST         1304.32 CO           031443.00
              SC,$X0,$R           -INTERNAL REGISTER               11.01 50             031443.40
              KC,$X0,$R                                            11.01 90             031444.00
              SIC,SEN             -FAILED TO PROPERLY STORE        1310.00 80           031444.40
              BZXE,SERS           -INTO BIT 8  OF INT REG          1304.32 CO           031445.00
                                  -TEST BIT 35
     12411    LX,$X0,BIT35        -WORD WITH 1 AT BIT 35           33374.00 10          031445.40
              SC,$X0,124DUP       -EXT MEM                         31632.01 50          031446.00
              KC,$X0,124DUP                                        31632.01 90          031446.40
              SIC,SEN             -FAILED TO PROPERLY STORE        1310.00 80           031447.00
              BZXE,SERS           -INTO BIT 7  OF MEM LOC          1304.32 CO           031447.40
              SC,$X0,$X2          -INDEX STORAGE                   22.01 50             031450.00
              KC,$X0,$X2                                           22.01 90             031450.40
              SIC,SEN             -FAILED TO PROPERLY STORE        1310.00 80           031451.00
              BZXE,SERS           -INTO BIT 7  OF INDEX ST         1304.32 CO           031451.40
              SC,$X0,$R           -INTERNAL REGISTER               11.01 50             031452.00
              KC,$X0,$R                                            11.01 90             031452.40
              SIC,SEN             -FAILED TO PROPERLY STORE        1310.00 80           031453.00
              BZXE,SERS           -INTO BIT 7  OF INT REG          1304.32 CO           031453.40
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        B,$+1.0                                      31455.10 00        031454.00
        BD,1249                                      31430.44 00        031454.40
        SIC,SEN0+.32                                 1311.40 80         031455.00
        B,SSW                                        1301.10 00         031455.40
        BD,$+.32                                     31456.44 00        031456.00

        LX,$X13,IC224      -UPDATE CONTINUITY CHECK. 31627.32 10        031456.40
        V+,$X13,BIT3                                 33334.32 B0        031457.00
        SX,$X13,IC224                                31627.33 10        031457.40
                           -TEST BIT 34
12412   LX,$X0,BIT34       -WORD WITH 1 AT BIT 34    33373.00 10        031460.00
        SC,$X0,124DUP      -EXT MEM                  31632.01 50        031460.40
        KC,$X0,124DUP                                31632.01 90        031461.00
        SIC,SEN            -FAILED TO PROPERLY STORE 1310.00 80         031461.40
        BZXE,SERS          -INTO BIT 6  OF MEM LOC   1304.32 C0         031462.00
        SC,$X0,$X2         -INDEX STORAGE            22.01 50           031462.40
        KC,$X0,$X2                                   22.01 90           031463.00
        SIC,SEN            -FAILED TO PROPERLY STORE 1310.00 80         031463.40
        BZXE,SERS          -INTO BIT 6  OF INDEX ST  1304.32 C0         031464.00
        SC,$X0,$R          -INTERNAL REGISTER        11.01 50           031464.40
        KC,$X0,$R                                    11.01 90           031465.00
        SIC,SEN            -FAILED TO PROPERLY STORE 1310.00 80         031465.40
        BZXE,SERS          -INTO BIT 6  OF INT REG   1304.32 C0         031466.00
                           -TEST BIT 33
12413   LX,$X0,BIT33       -WORD WITH 1 AT BIT 33    33372.00 10        031466.40
        SC,$X0,124DUP      -EXT MEM                  31632.01 50        031467.00
        KC,$X0,124DUP                                31632.01 90        031467.40
        SIC,SEN            -FAILED TO PROPERLY STORE 1310.00 80         031470.00
        BZXE,SERS          -INTO BIT 5  OF MEM LOC   1304.32 C0         031470.40
        SC,$X0,$X2         -INDEX STORAGE            22.01 50           031471.00
        KC,$X0,$X2                                   22.01 90           031471.40
        SIC,SEN            -FAILED TO PROPERLY STORE 1310.00 80         031472.00
        BZXE,SERS          -INTO BIT 5  OF INDEX ST  1304.32 C0         031472.40
        SC,$X0,$R          -INTERNAL REGISTER        11.01 50           031473.00
        KC,$X0,$R                                    11.01 90           031473.40
        SIC,SEN            -FAILED TO PROPERLY STORE 1310.00 80         031474.00
        BZXE,SERS          -INTO BIT 5  OF INT REG   1304.32 C0         031474.40
                           -TEST BIT 32
12414   LX,$X0,BIT32       -WORD WITH 1 AT BIT 32    33371.00 10        031475.00
        SC,$X0,124DUP      -EXT MEM                  31632.01 50        031475.40
        KC,$X0,124DUP                                31632.01 90        031476.00
        SIC,SEN            -FAILED TO PROPERLY STORE 1310.00 80         031476.40
        BZXE,SERS          -INTO BIT 4  OF MEM LOC   1304.32 C0         031477.00
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              SC,$X0,$X2           -INDEX STORAGE              22.01 50       031477.40
              KC,$X0,$X2                                       22.01 90       031500.00
              SIC,SEN             -FAILED TO PROPERLY STORE    1310.00 80     031500.40
              BZXE,SERS           -INTO BIT 4  OF INDEX ST     1304.32 CO     031501.00
              SC,$X0,$R           -INTERNAL REGISTER           11.01 50       031501.40
              KC,$X0,$R                                        11.01 90       031502.00
              SIC,SEN             -FAILED TO PROPERLY STORE    1310.00 80     031502.40
              BZXE,SERS           -INTO BIT 4  OF INT REG      1304.32 CO     031503.00
                                  -TEST BIT 31
    12415     LX,$X0,BIT31        -WORD WITH 1 AT BIT 31       33370.00 10    031503.40
              SC,$X0,124DUP       -EXT MEM                     31632.01 50    031504.00
              KC,$X0,124DUP                                    31632.01 90    031504.40
              SIC,SEN             -FAILED TO PROPERLY STORE    1310.00 80     031505.00
              BZXE,SERS           -INTO BIT 3  OF MEM LOC      1304.32 CO     031505.40
              SC,$X0,$X2          -INDEX STORAGE               22.01 50       031506.00
              KC,$X0,$X2                                       22.01 90       031506.40
              SIC,SEN             -FAILED TO PROPERLY STORE    1310.00 80     031507.00
              BZXE,SERS           -INTO BIT 3  OF INDEX ST     1304.32 CO     031507.40
              SC,$X0,$R           -INTERNAL REGISTER           11.01 50       031510.00
              KC,$X0,$R                                        11.01 90       031510.40
              SIC,SEN             -FAILED TO PROPERLY STORE    1310.00 80     031511.00
              BZXE,SERS           -INTO BIT 3  OF INT REG      1304.32 CO     031511.40
              B,$+1.0                                          31513.10 00    031512.00
              BD,12412                                         31460.04 00    031512.40
              SIC,SEN0+.32                                     1311.40 80     031513.00
              B,SSW                                            1301.10 00     031513.40
              BD,$+.32                                         31514.44 00    031514.00

              LX,$X13,IC224       -UPDATE CONTINUITY CHECK.    31627.32 10    031514.40
              V+,$X13,BIT4                                     33335.32 BO    031515.00
              SX,$X13,IC224                                    31627.33 10    031515.40
                                  -TEST BIT 30
    12416     LX,$X0,BIT30        -WORD WITH 1 AT BIT 30       33367.00 10    031516.00
              SC,$X0,124DUP       -EXT MEM                     31632.01 50    031516.40
              KC,$X0,124DUP                                    31632.01 90    031517.00
              SIC,SEN             -FAILED TO PROPERLY STORE    1310.00 80     031517.40
              BZXE,SERS           -INTO BIT 2  OF MEM LOC      1304.32 CO     031520.00
              SC,$X0,$X2          -INDEX STORAGE               22.01 50       031520.40
              KC,$X0,$X2                                       22.01 90       031521.00
              SIC,SEN             -FAILED TO PROPERLY STORE    1310.00 80     031521.40
              BZXE,SERS           -INTO BIT 2  OF INDEX ST     1304.32 CO     031522.00
              SC,$X0,$R           -INTERNAL REGISTER           11.01 50       031522.40
              KC,$X0,$R                                        11.01 90       031523.00
              SIC,SEN             -FAILED TO PROPERLY STORE    1310.00 80     031523.40
              BZXE,SERS           -INTO BIT 2  OF INT REG      1304.32 CO     031524.00
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                                -TEST BIT 29
12417   LX,$X0,BIT29            -WORD WITH 1 A BITT          33366.00 10        031524.40
        SC,$X0,I24DUP           -EXT MEM                     31632.01 50        031525.00
        KC,$X0,I24DUP                                        31632.01 90        031525.40
        SIC,SEN                 -FAILED TO PROPERLY STORE    1310.00 80         031526.00
        BZXE,SERS               -INTO BIT 1  OF MEM LOC      1304.32 CO         031526.40
        SC,$X0,$X2              -INDEX STORAGE               22.01 50           031527.00
        KC,$X0,$X2                                           22.01 90           031527.40
        SIC,SEN                 -FAILED TO PROPERLY STORE    1310.00 80         031530.00
        BZXE,SERS               -INTO BIT 1  OF INDEX ST     1304.32 CO         031530.40
        SC,$X0,$R               -INTERNAL REGISTER           11.01 50           031531.00
        KC,$X0,$R                                            11.01 90           031531.40
        SIC,SEN                 -FAILED TO PROPERLY STORE    1310.00 80         031532.00
        BZXE,SERS               -INTO BIT 1  OF INT REG      1304.32 CO         031532.40
                                -TEST BIT 28
12418   LX,$X0,BIT28            -WORD WITH 1 A BIT           33365.00 10        031533.00
        SC,$X0,I24DUP           -EXT MEM                     31632.01 50        031533.40
        KC,$X0,I24DUP                                        31632.01 90        031534.00
        SIC,SEN                 -FAILED TO PROPERLY STORE    1310.00 80         031534.40
        BZXE,SERS               -INTO BIT 0  OF MEM LOC      1304.32 CO         031535.00
        SC,$X0,$X2              -INDEX STORAGE               22.01 50           031535.40
        KC,$X0,$X2                                           22.01 90           031536.00
        SIC,SEN                 -FAILED TO PROPERLY STORE    1310.00 80         031536.40
        BZXE,SERS               -INTO BIT 0  OF INDEX ST     1304.32 CO         031537.00
        B,$+1.0                                              31540.50 00        031537.40
        BD,12416                                             31516.04 00        031540.00
        SIC,SENO+.32                                         1311.40 80         031540.40
        B,SSW                                                1301.10 00         031541.00
        BD,$+.32                                             31542.04 00        031541.40

        LX,$X13,IC224          -UPDATE CONTINUITY CHECK.     31627.32 10        031542.00
        V+,$X13,BIT5                                         33336.32 BO        031542.40
        SX,$X13,IC224                                        31627.33 10        031543.00
                                -TEST ALL ONES
12419   LX,$X0,I000            -WORD WITH 1 BITS             33312.00 10        031543.40
        SC,$X0,I24DUP          -EXT MEM                      31632.01 50        031544.00
        KC,$X0,I24DUP                                        31632.01 90        031544.40
        SIC,SEN                -FAILED TO PROPERLY STORE     1310.00 80         031545.00
        BZXE,SERS              -ALL ONES                     1304.32 CO         031545.40
        SC,$X0,$X2             -INDEX STORAGE                22.01 50           031546.00
        KC,$X0,$X2                                           22.01 90           031546.40
        SIC,SEN                -FAILED TO PROPERLY STORE     1310.00 80         031547.00
        BZXE,SERS              -ALL ONES                     1304.32 CO         031547.40
        SC,$X0,$R              -INTERNAL REGISTER            11.01 50           031550.00
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         KC,$X0,$R                                              11.01 90          031550.40
         SIC,SEN          -FAILED TO PROPERLY STORE           1310.00 80         031551.00
         BZXE,SERS        -ALL ONES                           1304.32 C0         031551.40
                          -TEST ALL ZEROS
12420    LX,$X0,100Z      -WORD WITH BITS                    33311.00 10         031552.00
         SC,$X0,124DUP    -EXT MEM                           31632.01 50         031552.40
         KC,$X0,124DUP                                       31632.01 90         031553.00
         SIC,SEN          -FAILED TO PROPERLY STORE           1310.00 80         031553.40
         BZXE,SERS        -ALL ZEROS                          1304.32 C0         031554.00
         SC,$X0,$X2       -INDEX STORAGE                        22.01 50         031554.40
         KC,$X0,$X2                                             22.01 90         031555.00
         SIC,SEN          -FAILED TO PROPERLY STORE           1310.00 80         031555.40
         BZXE,SERS        -ALL ZEROS                          1304.32 C0         031556.00
         SC,$X0,$R        -INTERNAL REGISTER                    11.01 50         031556.40
         KC,$X0,$R                                              11.01 90         031557.00
         SIC,SEN          -FAILED TO PROPERLY STORE           1310.00 80         031557.40
         BZXE,SERS        -ALL ZEROS                          1304.32 C0         031560.00
                          -TEST THE RESET OF BIT 18-24
12421    LX,$X0,1000      -ALL ONES WORD                     33312.00 10         031560.40
         SR,$X0,$X1       -SET COMAPRE FIELD                    21.01 70         031561.00
         SC,$X0,124DUP    -EXT MEM                           31632.01 50         031561.40
         KV,$X1,124DUP                                       31632.02 90         031562.00
         SIC,SEN          -BITS 18 TO 24 ARE NOT ZEROS        1310.00 80         031562.40
         BZXE,SERS        -AFTER SC TO EXT MEM                1304.32 C0         031563.00
         SC,$X0,$X2       -INDEX STORAGE                        22.01 50         031563.40
         KV,$X1,$X2                                             22.02 90         031564.00
         SIC,SEN          -BITS 18 TO 24 ARE NOT ZEROS        1310.00 80         031564.40
         BZXE,SERS        -AFTER SC TO INDEX ST               1304.32 C0         031565.00
         SC,$X0,$R        -INTERNAL REG                         11.01 50         031565.40
         KV,$X1,$R                                             11.02 90         031566.00
         SIC,SEN          -BITS 18 TO 24 ARE NOT ZEROS        1310.00 80         031566.40
         BZXE,SERS        -AFTER SC TO INT REG                1304.32 C0         031567.00
         B,$+1.0                                             31570.50 00         031567.40
         BD,12419                                            31543.44 00         031570.00
         SIC,SEN0+.32                                         1311.40 80         031570.40
         B,SSW                                                1301.10 00         031571.00
         BD,$+.32                                            31572.04 00         031571.40

         LX,$X13,IC224    -UPDATE CONTINUITY CHECK.          31627.32 10         031572.00
         V+,$X13,BIT6                                        33337.32 B0         031572.40
         SX,$X13,IC224                                       31627.33 10         031573.00
```

Label	Instruction	Comment	Col1	Col2
124100	LX,$X0,100Z	-CHECK THAT SC WILL STORE 18	33311.00 10	031573.40
	SC,$X0,1.0	-BITS INTO 1.0.	1.01 50	031574.00
	LX,$X1,1.0		1.02 10	031574.40
	KVI,$X1,%8□0.40		0.43 04	031575.00
	BXH,$+1.0		31576.73 42	031575.40
	B,124101	-OK	31602.10 00	031576.00
	SC,$X0,1.0		1.01 50	031576.40
	LX,$X1,1.0		1.02 10	031577.00
	KVI,$X1,%8□0.40		0.43 04	031577.40
	BXH,$+1.0		31601.33 42	031600.00
	B,$+1.32		31602.10 00	031600.40
	SIC,SEN	-S OF ALL ZEROES	1310.00 80	031601.00
	B,SERS	-TO 1.0 FAILS.	1304.10 00	031601.40
124101	LX,$X0,1000		33312.00 10	031602.00
	SC,$X0,1.0		1.01 50	031602.40
	LX,$X1,1.0		1.02 10	031603.00
	KVI,$X1,%8□777777.0		777777.03 04	031603.40
	BXE,124102	-OK	31607.72 C2	031604.00
	SC,$X0,1.0		1.01 50	031604.40
	LX,$X1,1.0		1.02 10	031605.00
	KVI,$X1,%8□777777.0		777777.03 04	031605.40
	BXE,$+1.32		31607.72 C2	031606.00
	SIC,SEN	-S OF ALL ONES	1310.00 80	031606.40
	B,SERS	-TO 1.0 FAILS.	1304.10 00	031607.00
124102	LX,$X0,100Z	-CHECK NO STORE TO 1.32.	33311.00 10	031607.40
	LX,$X1,1000		33312.02 10	031610.00
	Z,$X2		22.22 00	031610.40
124103	SC,$X0,1.32		1.41 50	031611.00
	LX,$X3,1.0		1.06 10	031611.40
	SC,$X1,1.32		1.43 50	031612.00
	LX,$X4,1.0		1.10 10	031612.40
	SC,$X3,$X3	-IF COUNT FLDS OF X3 AND X4	23.07 50	031613.00
	SC,$X4,$X4	-ARE EQUAL, THEN NO STORE TOOK	24.11 50	031613.40
	KV,$X3,$X4	-PLACE. IF NOT EQUAL,THEN DO	24.06 90	031614.00
	BXE,124104	-TEST ONCE MORE.	31620.72 C2	031614.40
	LX,$X2,$X2		22.04 10	031615.00
	BXCZ,$+1.0		31616.70 42	031615.40
	B,$+1.32		31617.50 00	031616.00
	LX,$X2,BIT30		33367.04 10	031616.40
	B,124103		31611.10 00	031617.00
	SIC,SEN	-S TO 1.32 PERMITS	1310.00 80	031617.40
	B,SERS	-DATA TO ENTER.	1304.10 00	031620.00
124104	B,$+1.0		31621.50 00	031620.40
	BD,124100		31573.44 00	031621.00
	SIC,SEN0+.32		1311.40 80	031621.40
	B,SSW	-TO SSIP.	1301.10 00	031622.00
	BD,$+.32		31623.04 00	031622.40
	LX,$X13,IC224	-UPDATE CONTINUITY CHECK.	31627.32 10	031623.00
	V+,$X13,BIT7		33340.32 B0	031623.40
	SX,$X13,IC224		31627.33 10	031624.00
	LX,$X13,IC224	-UPDATE CONTINUITY CHECK.	31627.32 10	031624.40
	KV,$X13,ICK224		31630.32 90	031625.00
	SIC,SEN		1310.00 80	031625.40
	BZXE,SERS	-CONTINUITY ERROR.	1304.32 C0	031626.00
	B,126		31633.10 00	031626.40

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        CNOP

 IC224    XW,0,0,0              -CONTINUITY REG 1224.            0.00 00 000000.00 00      031627.00
 ICK224   XW,%8¤776000.00,0,0                            776000.00 00 000000.00 00      031630.00

 124NAM   %IQSX¤DD%BU,64,8¤, 1224    X                                                  031631.00
 124DUP   DR%BU,64,8¤,%1¤                                        1.00                   031632.00
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----1226---TEST LOAD VALUE.

-TEST THE LOADING OF ALL BITS
-INTO BITS 0 TO 24 OF INDEX
-STORAGE LOADING IS CHECKED
-FROM THE THREE TYPE MEMORIES

-

126	LX,$X0,126NAM	-UPDATE IDENTIFICATION IN SSIP	32260.00 10	031633.00
	SX,$X0,DPET13		1437.01 10	031633.40
	SIC,RET		1306.40 80	031634.00
	B,IDF1	-PRINT ID.	1443.10 00	031634.40
	Z,IC226		32256.22 00	031635.00
		-TEST LV BIT 24		
1261	LX,$X0,BIT24	-WORD WITH 1 IN BIT 24	33361.00 10	031635.40
	SX,$X0,$X1	-PLACE IN INDEX STG.	21.01 10	031636.00
	SX,$X0,$R	-PLACE IN INT REG	11.01 10	031636.40
	LV,$X0,BIT24	-FROM EXT MEM	33361.00 30	031637.00
	KV,$X0,BIT24		33361.00 90	031637.40
	SIC,SEN	-FAILED TO PROPERLY LOAD	1310.00 80	031640.00
	BZXE,SERS	-BIT 24 FROM EXT MEM	1304.32 CO	031640.40
	LV,$X2,$X1	-FROM INDEX STORAGE	21.04 30	031641.00
	KV,$X2,BIT24		33361.04 90	031641.40
	SIC,SEN	-FAILED TO PROPERLY LOAD	1310.00 80	031642.00
	BZXE,SERS	-BIT 24 FROM INDEX STORAGE	1304.32 CO	031642.40
	LV,$X3,$R	-FROM INT REG	11.06 30	031643.00
	KV,$X3,BIT24		33361.06 90	031643.40
	SIC,SEN	-FAILED TO PROPERLY LOAD	1310.00 80	031644.00
	BZXE,SERS	-BIT 24 FROM INT REG	1304.32 CO	031644.40
		-TEST LV BIT 23		
1262	LX,$X0,BIT23	-WORD WITH 1 IN BIT 23	33360.00 10	031645.00
	SX,$X0,$X1	-PLACE IN INDEX STG.	21.01 10	031645.40
	SX,$X0,$R	-PLACE IN INT REG	11.01 10	031646.00
	LV,$X0,BIT23	-FROM EXT MEM	33360.00 30	031646.40
	KV,$X0,BIT23		33360.00 90	031647.00
	SIC,SEN	-FAILED TO PROPERLY LOAD	1310.00 80	031647.40
	BZXE,SERS	-BIT 23 FROM EXT MEM	1304.32 CO	031650.00
	LV,$X2,$X1	-FROM INDEX STORAGE	21.04 30	031650.40
	KV,$X2,BIT23		33360.04 90	031651.00
	SIC,SEN	-FAILED TO PROPERLY LOAD	1310.00 80	031651.40
	BZXE,SERS	-BIT 23 FROM INDEX STORAGE	1304.32 CO	031652.00
	LV,$X3,$R	-FROM INT REG	11.06 30	031652.40
	KV,$X3,BIT23		33360.06 90	031653.00
	SIC,SEN	-FAILED TO PROPERLY LOAD	1310.00 80	031653.40
	BZXE,SERS	-BIT 23 FROM INT REG	1304.32 CO	031654.00
		-TEST LV BIT 22		
1263	LX,$X0,BIT22	-WORD WITH 1 IN BIT 22	33357.00 10	031654.40
	SX,$X0,$X1	-PLACE IN INDEX STG.	21.01 10	031655.00
	SX,$X0,$R	-PLACE IN INT REG	11.01 10	031655.40
	LV,$X0,BIT22	-FROM EXT MEM	33357.00 30	031656.00
	KV,$X0,BIT22		33357.00 90	031656.40
	SIC,SEN	-FAILED TO PROPERLY LOAD	1310.00 80	031657.00
	BZXE,SERS	-BIT 22 FROM EXT MEM	1304.32 CO	031657.40
	LV,$X2,$X1	-FROM INDEX STORAGE	21.04 30	031660.00
	KV,$X2,BIT22		33357.04 90	031660.40
	SIC,SEN	-FAILED TO PROPERLY LOAD	1310.00 80	031661.00
	BZXE,SERS	-BIT 22 FROM INDEX STORAGE	1304.32 CO	031661.40
	LV,$X3,$R	-FROM INT REG	11.06 30	031662.00
	KV,$X3,BIT22		33357.06 90	031662.40
	SIC,SEN	-FAILED TO PROPERLY LOAD	1310.00 80	031663.00
	BZXE,SERS	-BIT 22 FROM INT REG	1304.32 CO	031663.40
		-TEST LV BIT 21		
1264	LX,$X0,BIT21	-WORD WITH 1 IN BIT 21	33356.00 10	031664.00

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SX,$X0,$X1          -PLACE IN INDEX STG.                              21.01 10              031664.40
SX,$X0,$R           -PLACE IN INT REG                                 11.01 10              031665.00
LV,$X0,BIT21        -FROM EXT MEM                                  33356.00 30              031665.40
KV,$X0,BIT21                                                      33356.00 90              031666.00
SIC,SEN             -FAILED TO PROPERLY LOAD                        1310.00 80              031666.40
BZXE,SERS           -BIT 21 FROM EXT MEM                            1304.32 C0              031667.00
LV,$X2,$X1          -FROM INDEX STORAGE                               21.04 30              031667.40
KV,$X2,BIT21                                                      33356.04 90              031670.00
SIC,SEN             -FAILED TO PROPERLY LOAD                        1310.00 80              031670.40
BZXE,SERS           -BIT 21 FROM INDEX STORAGE           .           1304.32 C0              031671.00
LV,$X3,$R           -FROM INT REG                                     11.06 30              031671.40
KV,$X3,BIT21                                                      33356.06 90              031672.00
SIC,SEN             -FAILED TO PROPERLY LOAD                        1310.00 80              031672.40
BZXE,SERS           -BIT 21 FROM INT REG                            1304.32 C0              031673.00
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                  -TEST LV BIT 20
1265    LX,$X0,BIT20      -WORD WITH 1 IN BIT 20          33355.00 10       031673.40
        SX,$X0,$X1        -PLACE IN INDEX STG.               21.01 10       031674.00
        SX,$X0,$R         -PLACE IN INT REG                  11.01 10       031674.40
        LV,$X0,BIT20      -FROM EXT MEM                   33355.00 30       031675.00
        KV,$X0,BIT20                                      33355.00 90       031675.40
        SIC,SEN           -FAILED TO PROPERLY LOAD         1310.00 80       031676.00
        BZXE,SERS         -BIT 20 FROM EXT MEM             1304.32 CO       031676.40
        LV,$X2,$X1        -FROM INDEX STORAGE                21.04 30       031677.00
        KV,$X2,BIT20                                      33355.04 90       031677.40
        SIC,SEN           -FAILED TO PROPERLY LOAD         1310.00 80       031700.00
        BZXE,SERS         -BIT 20 FROM INDEX STORAGE       1304.32 CO       031700.40
        LV,$X3,$R         -FROM INT REG                      11.06 30       031701.00
        KV,$X3,BIT20                                      33355.06 90       031701.40
        SIC,SEN           -FAILED TO PROPERLY LOAD         1310.00 80       031702.00
        BZXE,SERS         -BIT 20 FROM INT REG             1304.32 CO       031702.40
                  -TEST LV BIT 19
1266    LX,$X0,BIT19      -WORD WITH 1 IN BIT 19          33354.00 10       031703.00
        SX,$X0,$X1        -PLACE IN INDEX STG.               21.01 10       031703.40
        SX,$X0,$R         -PLACE IN INT REG                  11.01 10       031704.00
        LV,$X0,BIT19      -FROM EXT MEM                   33354.00 30       031704.40
        KV,$X0,BIT19                                      33354.00 90       031705.00
        SIC,SEN           -FAILED TO PROPERLY LOAD         1310.00 80       031705.40
        BZXE,SERS         -BIT 19 FROM EXT MEM             1304.32 CO       031706.00
        LV,$X2,$X1        -FROM INDEX STORAGE                21.04 30       031706.40
        KV,$X2,BIT19                                      33354.04 90       031707.00
        SIC,SEN           -FAILED TO PROPERLY LOAD         1310.00 80       031707.40
        BZXE,SERS         -BIT 19 FROM INDEX STORAGE       1304.32 CO       031710.00
        LV,$X3,$R         -FROM INT REG                      11.06 30       031710.40
        KV,$X3,BIT19                                      33354.06 90       031711.00
        SIC,SEN           -FAILED TO PROPERLY LOAD         1310.00 80       031711.40
        BZXE,SERS         -BIT 19 FROM INT REG             1304.32 CO       031712.00
                  -TEST LV BIT 18
1267    LX,$X0,BIT18      -WORD WITH 1 IN BIT 18          33353.00 10       031712.40
        SX,$X0,$X1        -PLACE IN INDEX STG.               21.01 10       031713.00
        SX,$X0,$R         -PLACE IN INT REG                  11.01 10       031713.40
        LV,$X0,BIT18      -FROM EXT MEM                   33353.00 30       031714.00
        KV,$X0,BIT18                                      33353.00 90       031714.40
        SIC,SEN           -FAILED TO PROPERLY LOAD         1310.00 80       031715.00
        BZXE,SERS         -BIT 18 FROM EXT MEM             1304.32 CO       031715.40
        LV,$X2,$X1        -FROM INDEX STORAGE                21.04 30       031716.00
        KV,$X2,BIT18                                      33353.04 90       031716.40
        SIC,SEN           -FAILED TO PROPERLY LOAD         1310.00 80       031717.00
        BZXE,SERS         -BIT 18 FROM INDEX STORAGE       1304.32 CO       031717.40
        LV,$X3,$R         -FROM INT REG                      11.06 30       031720.00
        KV,$X3,BIT18                                      33353.06 90       031720.40
        SIC,SEN           -FAILED TO PROPERLY LOAD         1310.00 80       031721.00
        BZXE,SERS         -BIT 18 FROM INT REG             1304.32 CO       031721.40
                  -TEST LV BIT 17
1268    LX,$X0,BIT17      -WORD WITH 1 IN BIT 17          33352.00 10       031722.00
        SX,$X0,$X1        -PLACE IN INDEX STG.               21.01 10       031722.40
        SX,$X0,$R         -PLACE IN INT REG                  11.01 10       031723.00
        LV,$X0,BIT17      -FROM EXT MEM                   33352.00 30       031723.40
        KV,$X0,BIT17                                      33352.00 90       031724.00
        SIC,SEN           -FAILED TO PROPERLY LOAD         1310.00 80       031724.40
        BZXE,SERS         -BIT 17 FROM EXT MEM             1304.32 CO       031725.00
        LV,$X2,$X1        -FROM INDEX STORAGE                21.04 30       031725.40
        KV,$X2,BIT17                                      33352.04 90       031726.00
        SIC,SEN           -FAILED TO PROPERLY LOAD         1310.00 80       031726.40
        BZXE,SERS         -BIT 17 FROM INDEX STORAGE       1304.32 CO       031727.00
        LV,$X3,$R         -FROM INT REG                      11.06 30       031727.40
        KV,$X3,BIT17                                      33352.06 90       031730.00
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SIC,SEN              -FAILED TO PROPERLY LOAD        1310.00 80         031730.40
BZXE,SERS            -BIT 17 FROM INT REG            1304.32 C0         031731.00

B,$+1.0                                             31732.50 00         031731.40
BD,1261                                             31635.44 00         031732.00
SIC,SEN0+0.32                                        1311.40 80         031732.40
B,SSW                -TO SSIP.                       1301.10 00         031733.00
BD,$+.32                                            31734.04 00         031733.40

LX,$X13,IC226        -UPDATE CONTINUITY CHECK.      32256.32 10         031734.00
V+,$X13,BIT0                                        33331.32 B0         031734.40
SX,$X13,IC226                                       32256.33 10         031735.00
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                              -TEST LV BIT 16
1269      LX,$X0,BIT16        -WORD WITH 1 IN BIT 16          33351.00 10        031735.40
          SX,$X0,$X1          -PLACE IN INDEX STG.               21.01 10        031736.00
          SX,$X0,$R           -PLACE IN INT REG                  11.01 10        031736.40
          LV,$X0,BIT16        -FROM EXT MEM                   33351.00 30        031737.00
          KV,$X0,BIT16                                        33351.00 90        031737.40
          SIC,SEN             -FAILED TO PROPERLY LOAD         1310.00 80        031740.00
          BZXE,SERS           -BIT 16 FROM EXT MEM             1304.32 C0        031740.40
          LV,$X2,$X1          -FROM INDEX STORAGE                21.04 30        031741.00
          KV,$X2,BIT16                                        33351.04 90        031741.40
          SIC,SEN             -FAILED TO PROPERLY LOAD         1310.00 80        031742.00
          BZXE,SERS           -BIT 16 FROM INDEX STORAGE       1304.32 C0        031742.40
          LV,$X3,$R           -FROM INT REG                      11.06 30        031743.00
          KV,$X3,BIT16                                        33351.06 90        031743.40
          SIC,SEN             -FAILED TO PROPERLY LOAD         1310.00 80        031744.00
          BZXE,SERS           -BIT 16 FROM INT REG             1304.32 C0        031744.40
                              -TEST LV BIT 15
12610     LX,$X0,BIT15        -WORD WITH 1 IN BIT 15          33350.00 10        031745.00
          SX,$X0,$X1          -PLACE IN INDEX STG.               21.01 10        031745.40
          SX,$X0,$R           -PLACE IN INT REG                  11.01 10        031746.00
          LV,$X0,BIT15        -FROM EXT MEM                   33350.00 30        031746.40
          KV,$X0,BIT15                                        33350.00 90        031747.00
          SIC,SEN             -FAILED TO PROPERLY LOAD         1310.00 80        031747.40
          BZXE,SERS           -BIT 15 FROM EXT MEM             1304.32 C0        031750.00
          LV,$X2,$X1          -FROM INDEX STORAGE                21.04 30        031750.40
          KV,$X2,BIT15                                        33350.04 90        031751.00
          SIC,SEN             -FAILED TO PROPERLY LOAD         1310.00 80        031751.40
          BZXE,SERS           -BIT 15 FROM INDEX STORAGE       1304.32 C0        031752.00
          LV,$X3,$R           -FROM INT REG                      11.06 30        031752.40
          KV,$X3,BIT15                                        33350.06 90        031753.00
          SIC,SEN             -FAILED TO PROPERLY LOAD         1310.00 80        031753.40
          BZXE,SERS           -BIT 15 FROM INT REG             1304.32 C0        031754.00
                              -TEST LV BIT 14
12611     LX,$X0,BIT14        -WORD WITH 1 IN BIT 14          33347.00 10        031754.40
          SX,$X0,$X1          -PLACE IN INDEX STG.               21.01 10        031755.00
          SX,$X0,$R           -PLACE IN INT REG                  11.01 10        031755.40
          LV,$X0,BIT14        -FROM EXT MEM                   33347.00 30        031756.00
          KV,$X0,BIT14                                        33347.00 90        031756.40
          SIC,SEN             -FAILED TO PROPERLY LOAD         1310.00 80        031757.00
          BZXE,SERS           -BIT 14 FROM EXT MEM             1304.32 C0        031757.40
          LV,$X2,$X1          -FROM INDEX STORAGE                21.04 30        031760.00
          KV,$X2,BIT14                                        33347.04 90        031760.40
          SIC,SEN             -FAILED TO PROPERLY LOAD         1310.00 80        031761.00
          BZXE,SERS           -BIT 14 FROM INDEX STORAGE       1304.32 C0        031761.40
          LV,$X3,$R           -FROM INT REG                      11.06 30        031762.00
          KV,$X3,BIT14                                        33347.06 90        031762.40
          SIC,SEN             -FAILED TO PROPERLY LOAD         1310.00 80        031763.00
          BZXE,SERS           -BIT 14 FROM INT REG             1304.32 C0        031763.40
                              -TEST LV BIT 13
12612     LX,$X0,BIT13        -WORD WITH 1 IN BIT 13          33346.00 10        031764.00
          SX,$X0,$X1          -PLACE IN INDEX STG.               21.01 10        031764.40
          SX,$X0,$R           -PLACE IN INT REG                  11.01 10        031765.00
          LV,$X0,BIT13        -FROM EXT MEM                   33346.00 30        031765.40
          KV,$X0,BIT13                                        33346.00 90        031766.00
          SIC,SEN             -FAILED TO PROPERLY LOAD         1310.00 80        031766.40
          BZXE,SERS           -BIT 13 FROM EXT MEM             1304.32 C0        031767.00
          LV,$X2,$X1          -FROM INDEX STORAGE                21.04 30        031767.40
          KV,$X2,BIT13                                        33346.04 90        031770.00
          SIC,SEN             -FAILED TO PROPERLY LOAD         1310.00 80        031770.40
          BZXE,SERS           -BIT 13 FROM INDEX STORAGE       1304.32 C0        031771.00
          LV,$X3,$R           -FROM INT REG                      11.06 30        031771.40
          KV,$X3,BIT13                                        33346.06 90        031772.00
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                                    -FAILED TO PROPERLY LOAD          1310.00 80          031772.40
        BZXE,SERS                   -BIT 13 FROM INT REG              1304.32 C0          031773.00


                                    -TEST LV BIT 12
12613   LX,$X0,BIT12                -WORD WITH 1 IN BIT               33345.00 10         031773.40
        SX,$X0,$X1                  -PLACE IN INDEX STG.                 21.01 10         031774.00
        SX,$X0,$R                   -PLACE IN INT REG                    11.01 10         031774.40
        LV,$X0,BIT12                -FROM EXT MEM                     33345.00 30         031775.00
        KV,$X0,BIT12                                                 33345.00 90         031775.40
        SIC,SEN                     -FAILED TO PROPERLY LOAD          1310.00 80          031776.00
        BZXE,SERS                   -BIT 12 FROM EXT MEM              1304.32 C0          031776.40
        LV,$X2,$X1                  -FROM INDEX STORAGE                  21.04 30         031777.00
        KV,$X2,BIT12                                                 33345.04 90         031777.40
        SIC,SEN                     -FAILED TO PROPERLY LOAD          1310.00 80          032000.00
        BZXE,SERS                   -BIT 12 FROM INDEX STORAGE        1304.32 C0          032000.40
        LV,$X3,$R                   -FROM INT REG                        11.06 30         032001.00
        KV,$X3,BIT12                                                 33345.06 90         032001.40
        SIC,SEN                     -FAILED TO PROPERLY LOAD          1310.00 80          032002.00
        BZXE,SERS                   -BIT 12 FROM INT REG              1304.32 C0          032002.40
                                    -TEST LV BIT 11
12614   LX,$X0,BIT11                -WORD WITH 1 IN BIT               33344.00 10         032003.00
        SX,$X0,$X1                  -PLACE IN INDEX STG.                 21.01 10         032003.40
        SX,$X0,$R                   -PLACE IN INT REG                    11.01 10         032004.00
        LV,$X0,BIT11                -FROM EXT MEM                     33344.00 30         032004.40
        KV,$X0,BIT11                                                 33344.00 90         032005.00
        SIC,SEN                     -FAILED TO PROPERLY LOAD          1310.00 80          032005.40
        BZXE,SERS                   -BIT 11 FROM EXT MEM              1304.32 C0          032006.00
        LV,$X2,$X1                  -FROM INDEX STORAGE                  21.04 30         032006.40
        KV,$X2,BIT11                                                 33344.04 90         032007.00
        SIC,SEN                     -FAILED TO PROPERLY LOAD          1310.00 80          032007.40
        BZXE,SERS                   -BIT 11 FROM INDEX STORAGE        1304.32 C0          032010.00
        LV,$X3,$R                   -FROM INT REG                        11.06 30         032010.40
        KV,$X3,BIT11                                                 33344.06 90         032011.00
        SIC,SEN                     -FAILED TO PROPERLY LOAD          1310.00 80          032011.40
        BZXE,SERS                   -BIT 11 FROM INT REG              1304.32 C0          032012.00
                                    -TEST LV BIT 10
12615   LX,$X0,BIT10                -WORD WITH 1 IN BIT 10            33343.00 10         032012.40
        SX,$X0,$X1                  -PLACE IN INDEX STG.                 21.01 10         032013.00
        SX,$X0,$R                   -PLACE IN INT REG                    11.01 10         032013.40
        LV,$X0,BIT10                -FROM EXT MEM                     33343.00 30         032014.00
        KV,$X0,BIT10                                                 33343.00 90         032014.40
        SIC,SEN                     -FAILED TO PROPERLY LOAD          1310.00 80          032015.00
        BZXE,SERS                   -BIT 10 FROM EXT MEM              1304.32 C0          032015.40
        LV,$X2,$X1                  -FROM INDEX STORAGE                  21.04 30         032016.00
        KV,$X2,BIT10                                                 33343.04 90         032016.40
        SIC,SEN                     -FAILED TO PROPERLY LOAD          1310.00 80          032017.00
        BZXE,SERS                   -BIT 10 FROM INDEX STORAGE        1304.32 C0          032017.40
        LV,$X3,$R                   -FROM INT REG                        11.06 30         032020.00
        KV,$X3,BIT10                                                 33343.06 90         032020.40
        SIC,SEN                     -FAILED TO PROPERLY LOAD          1310.00 80          032021.00
        BZXE,SERS                   -BIT 10 FROM INT REG              1304.32 C0          032021.40
                                    -TEST LV BIT
12616   LX,$X0,BIT9                 -WORD WITH 1 IN BIT 9             33342.00 10         032022.00
        SX,$X0,$X1                  -PLACE IN INDEX STG.                 21.01 10         032022.40
        SX,$X0,$R                   -PLACE IN INT REG                    11.01 10         032023.00
        LV,$X0,BIT9                 -FROM EXT MEM                     33342.00 30         032023.40
        KV,$X0,BIT9                                                  33342.00 90         032024.00
        SIC,SEN                     -FAILED TO PROPERLY LOAD          1310.00 80          032024.40
        BZXE,SERS                   -BIT 9  FROM EXT MEM              1304.32 C0          032025.00
        LV,$X2,$X1                  -FROM INDEX STORAGE                  21.04 30         032025.40
        KV,$X2,BIT9                                                  33342.04 90         032026.00
        SIC,SEN                     -FAILED TO PROPERLY LOAD          1310.00 80          032026.40
        BZXE,SERS                   -BIT 9  FROM INDEX STORAGE        1304.32 C0          032027.00
        LV,$X3,$R                   -FROM INT REG                        11.06 30         032027.40
        KV,$X3,BIT9                                                  33342.06 90         032030.00
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SIC,SEN           -FAILED TO PROPERLY LOAD        1310.00 80        032030.40
BZXE,SERS         -BIT 9  FROM INT REG            1304.32 C0        032031.00

B,$+1.0                                           32032.50 00       032031.40
BD,1269                                           31735.44 00       032032.00
SIC,SENO+0.32                                     1311.40 80        032032.40
B,SSW             -TO SSIP.                       1301.10 00        032033.00
BD,$+.32                                          32034.04 00       032033.40

LX,$X13,IC226     -UPDATE CONTINUITY CHECK.       32256.32 10       032034.00
V+,$X13,BIT1                                      33332.32 B0       032034.40
SX,$X13,IC226                                     32256.33 10       032035.00
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                                 -TEST LV BIT 8
12617    LX,$X0,BIT8            -WORD WITH 1 IN BIT 8           33341.00 10          032035.40
         SX,$X0,$X1            -PLACE IN INDEX STG.               21.01 10          032036.00
         SX,$X0,$R             -PLACE IN INT REG                  11.01 10          032036.40
         LV,$X0,BIT8           -FROM EXT MEM                   33341.00 30          032037.00
         KV,$X0,BIT8                                           33341.00 90          032037.40
         SIC,SEN               -FAILED TO PROPERLY LOAD         1310.00 80          032040.00
         BZXE,SERS             -BIT 8   FROM EXT MEM            1304.32 CO          032040.40
         LV,$X2,$X1            -FROM INDEX STORAGE                21.04 30          032041.00
         KV,$X2,BIT8                                           33341.04 90          032041.40
         SIC,SEN               -FAILED TO PROPERLY LOAD         1310.00 80          032042.00
         BZXE,SERS             -BIT 8   FROM INDEX STORAGE      1304.32 CO          032042.40
         LV,$X3,$R             -FROM INT REG                     11.06 30          032043.00
         KV,$X3,BIT8                                           33341.06 90          032043.40
         SIC,SEN               -FAILED TO PROPERLY LOAD         1310.00 80          032044.00
         BZXE,SERS             -BIT 8   FROM INT REG            1304.32 CO          032044.40
                                 -TEST LV BIT 7
12618    LX,$X0,BIT7            -WORD WITH 1 IN BIT             33340.00 10          032045.00
         SX,$X0,$X1            -PLACE IN INDEX STG.               21.01 10          032045.40
         SX,$X0,$R             -PLACE IN INT REG                  11.01 10          032046.00
         LV,$X0,BIT7           -FROM EXT MEM                   33340.00 30          032046.40
         KV,$X0,BIT7                                           33340.00 90          032047.00
         SIC,SEN               -FAILED TO PROPERLY LOAD         1310.00 80          032047.40
         BZXE,SERS             -BIT 7   FROM EXT MEM            1304.32 CO          032050.00
         LV,$X2,$X1            -FROM INDEX STORAGE                21.04 30          032050.40
         KV,$X2,BIT7                                           33340.04 90          032051.00
         SIC,SEN               -FAILED TO PROPERLY LOAD         1310.00 80          032051.40
         BZXE,SERS             -BIT 7   FROM INDEX STORAGE      1304.32 CO          032052.00
         LV,$X3,$R             -FROM INT REG                     11.06 30          032052.40
         KV,$X3,BIT7                                           33340.06 90          032053.00
         SIC,SEN               -FAILED TO PROPERLY LOAD         1310.00 80          032053.40
         BZXE,SERS             -BIT 7   FROM INT REG            1304.32 CO          032054.00
                                 -TEST LV BIT 6
12619    LX,$X0,BIT6            -WORD WITH 1 IN BIT 6           33337.00 10          032054.40
         SX,$X0,$X1            -PLACE IN INDEX STG.               21.01 10          032055.00
         SX,$X0,$R             -PLACE IN INT REG                  11.01 10          032055.40
         LV,$X0,BIT6           -FROM EXT MEM                   33337.00 30          032056.00
         KV,$X0,BIT6                                           33337.00 90          032056.40
         SIC,SEN               -FAILED TO PROPERLY LOAD         1310.00 80          032057.00
         BZXE,SERS             -BIT 6   FROM EXT MEM            1304.32 CO          032057.40
         LV,$X2,$X1            -FROM INDEX STORAGE                21.04 30          032060.00
         KV,$X2,BIT6                                           33337.04 90          032060.40
         SIC,SEN               -FAILED TO PROPERLY LOAD         1310.00 80          032061.00
         BZXE,SERS             -BIT 6   FROM INDEX STORAGE      1304.32 CO          032061.40
         LV,$X3,$R             -FROM INT REG                     11.06 30          032062.00
         KV,$X3,BIT6                                           33337.06 90          032062.40
         SIC,SEN               -FAILED TO PROPERLY LOAD         1310.00 80          032063.00
         BZXE,SERS             -BIT 6   FROM INT REG            1304.32 CO          032063.40
                                 -TEST LV BIT 5
12620    LX,$X0,BIT5            -WORD WITH 1 IN BIT 5           33336.00 10          032064.00
         SX,$X0,$X1            -PLACE IN INDEX STG.               21.01 10          032064.40
         SX,$X0,$R             -PLACE IN INT REG                  11.01 10          032065.00
         LV,$X0,BIT5           -FROM EXT MEM                   33336.00 30          032065.40
         KV,$X0,BIT5                                           33336.00 90          032066.00
         SIC,SEN               -FAILED TO PROPERLY LOAD         1310.00 80          032066.40
         BZXE,SERS             -BIT 5   FROM EXT MEM            1304.32 CO          032067.00
         LV,$X2,$X1            -FROM INDEX STORAGE                21.04 30          032067.40
         KV,$X2,BIT5                                           33336.04 90          032070.00
         SIC,SEN               -FAILED TO PROPERLY LOAD         1310.00 80          032070.40
         BZXE,SERS             -BIT 5   FROM INDEX STORAGE      1304.32 CO          032071.00
         LV,$X3,$R             -FROM INT REG                     11.06 30          032071.40
         KV,$X3,BIT5                                           33336.06 90          032072.00
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                SIC,SEN        -FAILED TO PROPERLY LOAD         1310.00 80    032072.40
                BZXE,SERS      -BIT 5  FROM INT REG             1304.32 CO    032073.00


                               -TEST LV BIT 4
12621           LX,$X0,BIT4    -WORD WITH 1 IN BIT 4            33335.00 10   032073.40
                SX,$X0,$X1     -PLACE IN INDEX STG              21.01 10      032074.00
                SX,$X0,$R      -PLACE IN INT REG                11.01 10      032074.40
                LV,$X0,BIT4    -FROM EXT MEM                    33335.00 30   032075.00
                KV,$X0,BIT4                                     33335.00 90   032075.40
                SIC,SEN        -FAILED TO PROPERLY LOAD         1310.00 80    032076.00
                BZXE,SERS      -BIT 4  FROM EXT MEM             1304.32 CO    032076.40
                LV,$X2,$X1     -FROM INDEX STORAGE              21.04 30      032077.00
                KV,$X2,BIT4                                     33335.04 90   032077.40
                SIC,SEN        -FAILED TO PROPERLY LOAD         1310.00 80    032100.00
                BZXE,SERS      -BIT 4  FROM INDEX STORAGE       1304.32 CO    032100.40
                LV,$X3,$R      -FROM INT REG                    11.06 30      032101.00
                KV,$X3,BIT4                                     33335.06 90   032101.40
                SIC,SEN        -FAILED TO PROPERLY LOAD         1310.00 80    032102.00
                BZXE,SERS      -BIT 4  FROM INT REG             1304.32 CO    032102.40
                               -TEST LV BIT 3
12622           LX,$X0,BIT3    -WORD WITH 1 IN BIT 3            33334.00 10   032103.00
                SX,$X0,$X1     -PLACE IN INDEX STG              21.01 10      032103.40
                SX,$X0,$R      -PLACE IN INT REG                11.01 10      032104.00
                LV,$X0,BIT3    -FROM EXT MEM                    33334.00 30   032104.40
                KV,$X0,BIT3                                     33334.00 90   032105.00
                SIC,SEN        -FAILED TO PROPERLY LOAD         1310.00 80    032105.40
                BZXE,SERS      -BIT 3  FROM EXT MEM             1304.32 CO    032106.00
                LV,$X2,$X1     -FROM INDEX STORAGE              21.04 30      032106.40
                KV,$X2,BIT3                                     33334.04 90   032107.00
                SIC,SEN        -FAILED TO PROPERLY LOAD         1310.00 80    032107.40
                BZXE,SERS      -BIT 3  FROM INDEX STORAGE       1304.32 CO    032110.00
                LV,$X3,$R      -FROM INT REG                    11.06 30      032110.40
                KV,$X3,BIT3                                     33334.06 90   032111.00
                SIC,SEN        -FAILED TO PROPERLY LOAD         1310.00 80    032111.40
                BZXE,SERS      -BIT 3  FROM INT REG             1304.32 CO    032112.00
                               -TEST LV BIT 2
12623           LX,$X0,BIT2    -WORD WITH 1 IN BIT 2            33333.00 10   032112.40
                SX,$X0,$X1     -PLACE IN INDEX STG              21.01 10      032113.00
                SX,$X0,$R      -PLACE IN INT REG                11.01 10      032113.40
                LV,$X0,BIT2    -FROM EXT MEM                    33333.00 30   032114.00
                KV,$X0,BIT2                                     33333.00 90   032114.40
                SIC,SEN        -FAILED TO PROPERLY LOAD         1310.00 80    032115.00
                BZXE,SERS      -BIT 2  FROM EXT MEM             1304.32 CO    032115.40
                LV,$X2,$X1     -FROM INDEX STORAGE              21.04 30      032116.00
                KV,$X2,BIT2                                     33333.04 90   032116.40
                SIC,SEN        -FAILED TO PROPERLY LOAD         1310.00 80    032117.00
                BZXE,SERS      -BIT 2  FROM INDEX STORAGE       1304.32 CO    032117.40
                LV,$X3,$R      -FROM INT REG                    11.06 30      032120.00
                KV,$X3,BIT2                                     33333.06 90   032120.40
                SIC,SEN        -FAILED TO PROPERLY LOAD         1310.00 80    032121.00
                BZXE,SERS      -BIT 2  FROM INT REG             1304.32 CO    032121.40
                               -TEST LV BIT 1
12624           LX,$X0,BIT1    -WORD WITH 1 IN BIT 1            33332.00 10   032122.00
                SX,$X0,$R      -PLACE IN INT REG                11.01 10      032122.40
                SX,$X0,$X1     -PLACE IN INDEX STG              21.01 10      032123.00
                LV,$X0,BIT1    -FROM EXT MEM                    33332.00 30   032123.40
                KV,$X0,BIT1                                     33332.00 90   032124.00
                SIC,SEN        -FAILED TO PROPERLY LOAD         1310.00 80    032124.40
                BZXE,SERS      -BIT 1  FROM EXT MEM             1304.32 CO    032125.00
                LV,$X2,$X1     -FROM INDEX STORAGE              21.04 30      032125.40
                KV,$X2,BIT1                                     33332.04 90   032126.00
                SIC,SEN        -FAILED TO PROPERLY LOAD         1310.00 80    032126.40
                BZXE,SERS      -BIT 1  FROM INDEX STORAGE       1304.32 CO    032127.00
                LV,$X3,$R      -FROM INT REG                    11.06 30      032127.40
                KV,$X3,BIT1                                     33332.06 90   032130.00
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SIC,SEN              -FAILED TO PROPERLY LOAD        1310.00 80        032130.40
BZXE,SERS            -BIT 1  FROM INT REG            1304.32 CO        032131.00

B,$+1.0                                             32132.50 00       032131.40
BD,12617                                            32035.44 00       032132.00
SIC,SENO+0.32                                        1311.40 80       032132.40
B,SSW               -TO SSIP.                        1301.10 00       032133.00
BD,$+.32                                            32134.04 00       032133.40

LX,$X13,IC226       -UPDATE CONTINUITY CHECK.       32256.32 10       032134.00
V+,$X13,BIT2                                        33333.32 BO       032134.40
SX,$X13,IC226                                       32256.33 10       032135.00
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                                    -TEST LV BIT 0
12625   LX,$X0,BIT0     -WORD WITH 1 IN BIT 0            33331.00 10      032135.40
        SX,$X0,$R       -PLACE IN INT REG                   11.01 10      032136.00
        SX,$X0,$X1      -PLACE IN INDEX STG                 21.01 10      032136.40
        LV,$X0,BIT0     -FROM EXT MEM                    33331.00 30      032137.00
        KV,$X0,BIT0                                      33331.00 90      032137.40
        SIC,SEN         -FAILED TO PROPERLY LOAD         1310.00 80       032140.00
        BZXE,SERS       -BIT 0  FROM EXT MEM             1304.32 CO       032140.40
        LV,$X2,$X1      -FROM INDEX STORAGE                 21.04 30      032141.00
        KV,$X2,BIT0                                      33331.04 90      032141.40
        SIC,SEN         -FAILED TO PROPERLY LOAD         1310.00 80       032142.00
        BZXE,SERS       -BIT 0  FROM INDEX STORAGE       1304.32 CO       032142.40
        LV,$X3,$R       -FROM INT REG                       11.06 30      032143.00
        KV,$X3,BIT0                                      33331.06 90      032143.40
        SIC,SEN         -FAILED TO PROPERLY LOAD         1310.00 80       032144.00
        BZXE,SERS       -BIT 0  FROM INT REG             1304.32 CO       032144.40
                                    -TEST LV ALL ONES
12626   LX,$X0,1000     -WORD WITH 1 IN BIT 0-63         33312.00 10      032145.00
        SX,$X0,$X1      -PLACE IN INDEX STORAGE             21.01 10      032145.40
        SX,$X0,$R       -PLACE IN INT REG                   11.01 10      032146.00
        LV,$X0,1000     -FROM EXT MEM                    33312.00 30      032146.40
        KV,$X0,1000                                      33312.00 90      032147.00
        SIC,SEN         -FAILED TO PROPERLY LOAD ALL     1310.00 80       032147.40
        BZXE,SERS       -BITS FROM EXT MEM               1304.32 CO       032150.00
        LV,$X2,$X1      -FROM INDEX STORAGE                 21.04 30      032150.40
        KV,$X2,1000                                      33312.04 90      032151.00
        SIC,SEN         -FAILED TO PROPERLY LOAD ALL     1310.00 80       032151.40
        BZXE,SERS       -BITS FROM INDEX STORAGE         1304.32 CO       032152.00
        LV,$X3,$R       -FROM INT REG                       11.06 30      032152.40
        KV,$X3,1000                                      33312.06 90      032153.00
        SIC,SEN         -FAILED TO PROPERLY LOAD ALL     1310.00 80       032153.40
        BZXE,SERS       -BITS FROM INT REG               1304.32 CO       032154.00
                                    -TEST LV ALL ZEROS
12627   LX,$X0,100Z     -WORD WITH 0 BITS               33311.00 10      032154.40
        SX,$X0,$X1      -PLACE IN INDEX STORAGE             21.01 10      032155.00
        SX,$X0,$R       -PLACE IN INT REG                   11.01 10      032155.40
        LV,$X0,100Z     -FROM EXT MEM                    33311.00 30      032156.00
        KV,$X0,100Z                                      33311.00 90      032156.40
        SIC,SEN         -FAILED TO PROPERLY LOAD ALL     1310.00 80       032157.00
        BZXE,SERS       -ZEROS FROM EXT MEM              1304.32 CO       032157.40
        LV,$X2,$X1      -FROM INDEX STORAGE                 21.04 30      032160.00
        KV,$X2,100Z                                      33311.04 90      032160.40
        SIC,SEN         -FAILED TO PROPERLY LOAD ALL     1310.00 80       032161.00
        BZXE,SERS       -ZERO FROM INDEX STORAGE         1304.32 CO       032161.40
        LV,$X3,$R       -FROM INT REG                       11.06 30      032162.00
        KV,$X3,100Z                                      33311.06 90      032162.40
        SIC,SEN         -FAILED TO PROPERLY ALL          1310.00 80       032163.00
        BZXE,SERS       -ZEROS FROM INT REG              1304.32 CO       032163.40
        B,$+1.0                                          32165.10 00      032164.00
        BD,12625                                         32135.44 00      032164.40
        SIC,SEN0+0.32                                    1311.40 80       032165.00
        B,SSW                                            1301.10 00       032165.40
        BD,$+.32                                         32166.44 00      032166.00

        LX,$X13,IC226   -UPDATE CONTINUITY CHECK.        32256.32 10      032166.40
        V+,$X13,BIT3                                     33334.32 BO      032167.00
        SX,$X13,IC226                                    32256.33 10      032167.40
        B,12628                                          32170.50 00      032170.00
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                                      -TEST LVI BITS 0-24 RESET
12628   LX,$X0,1000         -ALL ONES                              33312.00 10         032170.40
        LVI,$X0,%8¤000000.0 -0 BITS IN POSITIONS 0 TO 24               0.01 01         032171.00
        KV,$X0,100Z         -WORD WITH 0 BITS                      33311.00 90         032171.40
        SIC,SEN                                                     1310.00 80         032172.00
        BZXE,SERS           -BIT 0-24 DID NOT LOAD PROPERLY        1304.32 C0         032172.40
                            -TEST LVI BIT 18
        LVI,$X0,%8¤0.40                                               0.41 01         032173.00
        KV,$X0,BIT18        -WORD WITH BIT IN 18                   33353.00 90         032173.40
        SIC,SEN                                                     1310.00 80         032174.00
        BZXE,SERS           -BIT 18 DID NOT LOAD PROPERLY          1304.32 C0         032174.40
                            -TEST LVI BIT 17
        LVI,$X0,%8¤000001.  -BIT IN POSITION 17                        1.01 01         032175.00
        KV,$X0,BIT17        -WORD WITH BIT IN 17                   33352.00 90         032175.40
        SIC,SEN                                                     1310.00 80         032176.00
        BZXE,SERS           -BIT 17 DID NOT LOAD PROPERLY          1304.32 C0         032176.40
                            -TEST LVI BIT 16
12629   LVI,$X0,%8¤000002.  -BIT IN POSITION 16                        2.01 01         032177.00
        KV,$X0,BIT16        -WORD WITH BIT IN 16                   33351.00 90         032177.40
        SIC,SEN                                                     1310.00 80         032200.00
        BZXE,SERS           -BIT 16 DID NOT LOAD PROPERLY          1304.32 C0         032200.40
                            -TEST LVI BIT 15
        LVI,$X0,%8¤000004.  -BIT IN POSITION 15                        4.01 01         032201.00
        KV,$X0,BIT15        -WORD WITH BIT IN 15                   33350.00 90         032201.40
        SIC,SEN                                                     1310.00 80         032202.00
        BZXE,SERS           -BIT 15 DID NOT LOAD PROPERLY          1304.32 C0         032202.40
                            -TEST LVI BIT 14
        LVI,$X0,%8¤000010.   -BIT IN POSITION 14                      10.01 01         032203.00
        KV,$X0,BIT14        -WORD WITH BIT IN 14                   33347.00 90         032203.40
        SIC,SEN                                                     1310.00 80         032204.00
        BZXE,SERS           -BIT 14 DID NOT LOAD PROPERLY          1304.32 C0         032204.40
                            -TEST LVI BIT 13
12630   LVI,$X0,%8¤000020.  -BIT IN POSITION 13                       20.01 01         032205.00
        KV,$X0,BIT13        -WORD WITH BIT IN 13                   33346.00 90         032205.40
        SIC,SEN                                                     1310.00 80         032206.00
        BZXE,SERS           -BIT 13 DID NOT LOAD PROPERLY          1304.32 C0         032206.40
                            -TEST LVI BIT 12
        LVI,$X0,%8¤000040.  -BIT IN POSITION 12                       40.01 01         032207.00
        KV,$X0,BIT12        -WORD WITH BIT IN 12                   33345.00 90         032207.40
        SIC,SEN                                                     1310.00 80         032210.00
        BZXE,SERS           -BIT 13 DID NOT LOAD PROPERLY          1304.32 C0         032210.40
                            -TEST LVI BIT 11
        LVI,$X0,%8¤000100.  -BIT IN POSITION 11                      100.01 01         032211.00
        KV,$X0,BIT11        -WORD WITH BIT IN 11                   33344.00 90         032211.40
        SIC,SEN                                                     1310.00 80         032212.00
        BZXE,SERS           -BIT 11 DID NOT LOAD PROPERLY          1304.32 C0         032212.40
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                              -TEST LVI BIT 10
12631   LVI,$X0,%8¤000200.    -BIT IN POSITION 10           200.01 01          032213.00
        KV,$X0,BIT10          -WORD WITH BIT IN 10        33343.00 90          032213.40
        SIC,SEN                                            1310.00 80          032214.00
        BZXE,SERS             -BIT 10 DID NOT LOAD PROPERLY 1304.32 CO          032214.40
                              -TEST LVI BIT 9
        LVI,$X0,%8¤000400.    -BIT IN POSITION 9            400.01 01          032215.00
        KV,$X0,BIT9           -WORD WITH BIT IN 9         33342.00 90          032215.40
        SIC,SEN                                            1310.00 80          032216.00
        BZXE,SERS             -BIT 9 DID NOT LOAD PROPERLY  1304.32 CO          032216.40
                              -TEST LVI BIT 8
        LVI,$X0,%8¤001000.    -BIT ON POSITION 8           1000.01 01          032217.00
        KV,$X0,BIT8           -WORD WITH BIT IN 8         33341.00 90          032217.40
        SIC,SEN                                            1310.00 80          032220.00
        BZXE,SERS             -BIT 8 DID NOT LOAD PROPERLY  1304.32 CO          032220.40
                              -TEST LVI BIT 7
12632   LVI,$X0,%8¤002000.    -BIT IN POSITION 7           2000.01 01          032221.00
        KV,$X0,BIT7           -WORD WITH BIT IN 7         33340.00 90          032221.40
        SIC,SEN                                            1310.00 80          032222.00
        BZXE,SERS             -BIT 7 DID NOT LOAD PROPERLY  1304.32 CO          032222.40
                              -TEST LVI BIT 6
        LVI,$X0,%8¤004000.    -BIT IN POSITION 6           4000.01 01          032223.00
        KV,$X0,BIT6           -WORD WITH BIT IN 6         33337.00 90          032223.40
        SIC,SEN                                            1310.00 80          032224.00
        BZXE,SERS             -BIT 6 DID NOT LOAD PROPERLY  1304.32 CO          032224.40
                              -TEST LVI BIT 5
        LVI,$X0,%8¤010000.    -BIT IN POSITION 5          10000.01 01          032225.00
        KV,$X0,BIT5           -WORD WITH BIT IN 5         33336.00 90          032225.40
        SIC,SEN                                            1310.00 80          032226.00
        BZXE,SERS             -BIT 5 DID NOT LOAD PROPERLY  1304.32 CO          032226.40
                              -TEST LVI BIT 4
12633   LVI,$X0,%8¤020000.    -BIT IN POSITION 4          20000.01 01          032227.00
        KV,$X0,BIT4           -WORD WITH BIT IN 4         33335.00 90          032227.40
        SIC,SEN                                            1310.00 80          032230.00
        BZXE,SERS             -BIT 4 DID NOT LOAD PROPERLY  1304.32 CO          032230.40
                              -TEST LVI BIT 3
        LVI,$X0,%8¤040000.    -BIT IN POSITION 3          40000.01 01          032231.00
        KV,$X0,BIT3           -WORD WITH BIT IN 3         33334.00 90          032231.40
        SIC,SEN                                            1310.00 80          032232.00
        BZXE,SERS             -BIT 3 DID NOT LOAD PROPERLY  1304.32 CO          032232.40
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                                        -TEST LVI BIT 2
            LVI,$X0,%8¤100000.    -BIT IN POSITION 2            100000.01 01              032233.00
            KV,$X0,BIT2           -WORD WITH BIT IN 2           33333.00 90               032233.40
            SIC,SEN                                             1310.00 80                032234.00
            BZXE,SERS             -BIT 2 DID NOT LOAD PROPERLY  1304.32 C0                032234.40
                                        -TEST LVI BIT 1
  12634     LVI,$X0,%8¤200000.    -BIT IN POSITION 1            200000.01 01              032235.00
            KV,$X0,BIT1           -WORD WITH BIT IN 1           33332.00 90               032235.40
            SIC,SEN                                             1310.00 80                032236.00
            BZXE,SERS             -BIT 1 DID NOT LOAD PROPERLY  1304.32 C0                032236.40
                                        -TEST LVI BIT 0
            LVI,$X0,%8¤400000.    -BIT IN POSITION 0            400000.01 01              032237.00
            KV,$X0,BIT0           -WORD WITH BIT IN 0           33331.00 90               032237.40
            SIC,SEN                                             1310.00 80                032240.00
            BZXE,SERS             -BIT 0 DID NOT LOAD PROPERLY  1304.32 C0                032240.40
                                        -TEST LVI ALL ONES
            LVI,$X0,%8¤777777.40                               777777.41 01              032241.00
            KV,$X0,I26K           -WORD WITH BITS IN 0 THRU 18. 32261.00 90               032241.40
            SIC,SEN                                             1310.00 80                032242.00
            BZXE,SERS             -ALL ONES DID NOT LOAD PROPERLY 1304.32 C0              032242.40
            B,$+1.0                                             32244.10 00               032243.00
            BD,12628                                            32170.44 00               032243.40
            SIC,SEN0+0.32                                       1311.40 80                032244.00
            B,SSW                                               1301.10 00                032244.40
                                        -TEST LVNI
  12635     LVNI,$X0,1.0                                        1.01 09                   032245.00
            KV,$X0,BIT17                                        33352.00 90               032245.40
            SIC,SEN                                             1310.00 80                032246.00
            BZXL,SERS            -LVNI NOT SETTING BIT 24.       1304.32 40               032246.40
            B,$+1.0                                             32250.10 00               032247.00
            BD,12635                                            32245.04 00               032247.40
            SIC,SEN0+0.32                                       1311.40 80                032250.00
            B,SSW                                               1301.10 00                032250.40
            BD,$+.32                                            32251.44 00               032251.00

            LX,$X13,IC226       -UPDATE CONTINUITY CHECK.       32256.32 10               032251.40
            V+,$X13,BIT4                                        33335.32 B0               032252.00
            SX,$X13,IC226                                       32256.33 10               032252.40

            LX,$X13,IC226       -UPDATE CONTINUITY CHECK.       32256.32 10               032253.00
            KV,$X13,ICK226                                      32257.32 90               032253.40
            SIC,SEN                                             1310.00 80                032254.00
            BZXE,SERS           -CONTINUITY ERROR.              1304.32 C0                032254.40
            B,128                                               32261.50 00               032255.00
            CNOP                                                0.30 00                   032255.40

            CNOP
  IC226     XW,0,0,0            -CONTINUITY REG 1226.           0.00 00 000000.00 00       032256.00
  ICK226    XW,%8¤760000.00,0,0                   760000.00 00 000000.00 00               032257.00

  126NAM    %IQSZ¤DD%BU,64,8¤,1226     Z                                                   032260.00
  126K      VF,%8¤777777.40                                     777777.40+                032261.00
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-TEST CORRECT LOADING OF EVERY
-POSITION OF COUNT FIELD

128	LX,$X0,1281D		32633.00 10	032261.40
	SX,$X0,DPET13	-UPDATE IDENTIFICATION	1437.01 10	032262.00
	SIC,RET		1306.40 80	032262.40
	B,IDF1		1443.10 00	032263.00
	Z,IC228		32631.22 00	032263.40
		-TEST BIT 45		
1281	LX,$X0,BIT17	-OPERAND USED IN LC	33352.00 10	032264.00
	SX,$X0,$X1	-PLACE IN INDEX STORAGE	21.01 10	032264.40
	SX,$X0,$R	-PLACE IN INTERNAL REG	11.01 10	032265.00
	LC,$X0,BIT17		33352.00 50	032265.40
	KC,$X0,BIT17		33352.01 90	032266.00
	SIC,SEN	-FAILED TO LOAD BIT 45	1310.00 80	032266.40
	BZXE,SERS	-FROM EXT MEM	1304.32 C0	032267.00
	LC,$X0,$X1		21.00 50	032267.40
	KC,$X0,BIT17		33352.01 90	032270.00
	SIC,SEN	-FAILED TO LOAD BIT 45	1310.00 80	032270.40
	BZXE,SERS	-FROM INDEX STORAGE	1304.32 C0	032271.00
	LC,$X0,$R		11.00 50	032271.40
	KC,$X0,BIT17		33352.01 90	032272.00
	SIC,SEN	-FAILED TO LOAD BIT 45	1310.00 80	032272.40
	BZXE,SERS	-FROM INDEX	1304.32 C0	032273.00
		-TEST BIT 44		
1282	LX,$X0,BIT16	-OPERAND USED IN LC	33351.00 10	032273.40
	SX,$X0,$X1	-PLACE IN INDEX STORAGE	21.01 10	032274.00
	SX,$X0,$R	-PLACE IN INTERNAL REG	11.01 10	032274.40
	LC,$X0,BIT16		33351.00 50	032275.00
	KC,$X0,BIT16		33351.01 90	032275.40
	SIC,SEN	-FAILED TO LOAD BIT 44	1310.00 80	032276.00
	BZXE,SERS	-FROM EXT MEM	1304.32 C0	032276.40
	LC,$X0,$X1		21.00 50	032277.00
	KC,$X0,BIT16		33351.01 90	032277.40
	SIC,SEN	-FAILED TO LOAD BIT 44	1310.00 80	032300.00
	BZXE,SERS	-FROM INDEX STORAGE	1304.32 C0	032300.40
	LC,$X0,$R		11.00 50	032301.00
	KC,$X0,BIT16		33351.01 90	032301.40
	SIC,SEN	-FAILED TO LOAD BIT 44	1310.00 80	032302.00
	BZXE,SERS	-FROM INDEX	1304.32 C0	032302.40
		-TEST BIT 43		
1283	LX,$X0,BIT15	-OPERAND USED IN LC	33350.00 10	032303.00
	SX,$X0,$X1	-PLACE IN INDEX STORAGE	21.01 10	032303.40
	SX,$X0,$R	-PLACE IN INTERNAL REG	11.01 10	032304.00
	LC,$X0,BIT15		33350.00 50	032304.40
	KC,$X0,BIT15		33350.01 90	032305.00
	SIC,SEN	-FAILED TO LOAD BIT 43	1310.00 80	032305.40
	BZXE,SERS	-FROM EXT MEM	1304.32 C0	032306.00
	LC,$X0,$X1		21.00 50	032306.40
	KC,$X0,BIT15		33350.01 90	032307.00
	SIC,SEN	-FAILED TO LOAD BIT 43	1310.00 80	032307.40
	BZXE,SERS	-FROM INDEX STORAGE	1304.32 C0	032310.00
	LC,$X0,$R		11.00 50	032310.40
	KC,$X0,BIT15		33350.01 90	032311.00
	SIC,SEN	-FAILED TO LOAD BIT 43	1310.00 80	032311.40
	BZXE,SERS	-FROM INDEX	1304.32 C0	032312.00
	B,$+1.0		32313.50 00	032312.40
	BD,1281		32264.04 00	032313.00
	SIC,SEN0+0.32		1311.40 80	032313.40

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B,SSW                                              1301.10 00              032314.00
BD,$+.32                                          32315.04 00              032314.40

LX,$X13,IC228          -UPDATE CONTINUITY CHECK.  32631.32 10              032315.00
V+,$X13,BIT0                                       33331.32 B0              032315.40
SX,$X13,IC228                                      32631.33 10              032316.00
B,1284                                             32317.10 00              032316.40
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                                          -TEST BIT 42
1284    LX,$X0,BIT14        -OPERAND USED IN LC          33347.00 10        032317.00
        SX,$X0,$X1          -PLACE IN INDEX STORAGE         21.01 10        032317.40
        SX,$X0,$R           -PLACE IN INTERNAL REG          11.01 10        032320.00
        LC,$X0,BIT14                                    33347.00 50        032320.40
        KC,$X0,BIT14                                    33347.01 90        032321.00
        SIC,SEN             -FAILED TO LOAD BIT 42        1310.00 80        032321.40
        BZXE,SERS           -FROM EXT MEM                1304.32 C0        032322.00
        LC,$X0,$X1                                         21.00 50        032322.40
        KC,$X0,BIT14                                    33347.01 90        032323.00
        SIC,SEN             -FAILED TO LOAD BIT 42        1310.00 80        032323.40
        BZXE,SERS           -FROM INDEX STORAGE          1304.32 C0        032324.00
        LC,$X0,$R                                          11.00 50        032324.40
        KC,$X0,BIT14                                    33347.01 90        032325.00
        SIC,SEN             -FAILED TO LOAD BIT 42        1310.00 80        032325.40
        BZXE,SERS           -FROM INDEX                  1304.32 C0        032326.00
                            -TEST BIT 41
1285    LX,$X0,BIT13        -OPERAND USED IN LC          33346.00 10        032326.40
        SX,$X0,$X1          -PLACE IN INDEX STORAGE         21.01 10        032327.00
        SX,$X0,$R           -PLACE IN INTERNAL REG          11.01 10        032327.40
        LC,$X0,BIT13                                    33346.00 50        032330.00
        KC,$X0,BIT13                                    33346.01 90        032330.40
        SIC,SEN             -FAILED TO LOAD BIT 41        1310.00 80        032331.00
        BZXE,SERS           -FROM EXT MEM                1304.32 C0        032331.40
        LC,$X0,$X1                                         21.00 50        032332.00
        KC,$X0,BIT13                                    33346.01 90        032332.40
        SIC,SEN             -FAILED TO LOAD BIT 41        1310.00 80        032333.00
        BZXE,SERS           -FROM INDEX STORAGE          1304.32 C0        032333.40
        LC,$X0,$R                                          11.00 50        032334.00
        KC,$X0,BIT13                                    33346.01 90        032334.40
        SIC,SEN             -FAILED TO LOAD BIT 41        1310.00 80        032335.00
        BZXE,SERS           -FROM INDEX                  1304.32 C0        032335.40
                            -TEST BIT 40
1286    LX,$X0,BIT12        -OPERAND USED IN LC          33345.00 10        032336.00
        SX,$X0,$X1          -PLACE IN INDEX STORAGE         21.01 10        032336.40
        SX,$X0,$R           -PLACE IN INTERNAL REG          11.01 10        032337.00
        LC,$X0,BIT12                                    33345.00 50        032337.40
        KC,$X0,BIT12                                    33345.01 90        032340.00
        SIC,SEN             -FAILED TO LOAD BIT 40        1310.00 80        032340.40
        BZXE,SERS           -FROM EXT MEM                1304.32 C0        032341.00
        LC,$X0,$X1                                         21.00 50        032341.40
        KC,$X0,BIT12                                    33345.01 90        032342.00
        SIC,SEN             -FAILED TO LOAD BIT 40        1310.00 80        032342.40
        BZXE,SERS           -FROM INDEX STORAGE          1304.32 C0        032343.00
        LC,$X0,$R                                          11.00 50        032343.40
        KC,$X0,BIT12                                    33345.01 90        032344.00
        SIC,SEN             -FAILED TO LOAD BIT 40        1310.00 80        032344.40
        BZXE,SERS           -FROM INDEX                  1304.32 C0        032345.00
        B,$+1.0                                         32346.50 00        032345.40
        BD,1284                                         32317.04 00        032346.00
        SIC,SEN0+0.32                                    1311.40 80        032346.40
        B,SSW                                            1301.10 00        032347.00
        BD,$+.32                                        32350.04 00        032347.40

        LX,$X13,IC228       -UPDATE CONTINUITY CHECK.    32631.32 10        032350.00
        V+,$X13,BIT1                                    33332.32 B0        032350.40
        SX,$X13,IC228                                   32631.33 10        032351.00
        B,1287                                          32352.10 00        032351.40
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                              -TEST BIT 39
1287    LX,$X0,BIT11          -OPERAND USED IN LC      33344.00 10    032352.00
        SX,$X0,$X1            -PLACE IN INDEX STORAGE     21.01 10    032352.40
        SX,$X0,$R            -PLACE IN INTERNAL REG       11.01 10    032353.00
        LC,$X0,BIT11                                  33344.00 50    032353.40
        KC,$X0,BIT11                                  33344.01 90    032354.00
        SIC,SEN              -FAILED TO LOAD BIT 39     1310.00 80    032354.40
        BZXE,SERS            -FROM EXT MEM              1304.32 CO    032355.00
        LC,$X0,$X1                                       21.00 50    032355.40
        KC,$X0,BIT11                                  33344.01 90    032356.00
        SIC,SEN              -FAILED TO LOAD BIT 39     1310.00 80    032356.40
        BZXE,SERS            -FROM INDEX STORAGE        1304.32 CO    032357.00
        LC,$X0,$R                                        11.00 50    032357.40
        KC,$X0,BIT11                                  33344.01 90    032360.00
        SIC,SEN              -FAILED TO LOAD BIT 39     1310.00 80    032360.40
        BZXE,SERS            -FROM INDEX                1304.32 CO    032361.00
                              -TEST BIT 38
1288    LX,$X0,BIT10          -OPERAND USED IN LC      33343.00 10    032361.40
        SX,$X0,$X1            -PLACE IN INDEX STORAGE     21.01 10    032362.00
        SX,$X0,$R            -PLACE IN INTERNAL REG       11.01 10    032362.40
        LC,$X0,BIT10                                  33343.00 50    032363.00
        KC,$X0,BIT10                                  33343.01 90    032363.40
        SIC,SEN              -FAILED TO LOAD BIT 38     1310.00 80    032364.00
        BZXE,SERS            -FROM EXT MEM              1304.32 CO    032364.40
        LC,$X0,$X1                                       21.00 50    032365.00
        KC,$X0,BIT10                                  33343.01 90    032365.40
        SIC,SEN              -FAILED TO LOAD BIT 38     1310.00 80    032366.00
        BZXE,SERS            -FROM INDEX STORAGE        1304.32 CO    032366.40
        LC,$X0,$R                                        11.00 50    032367.00
        KC,$X0,BIT10                                  33343.01 90    032367.40
        SIC,SEN              -FAILED TO LOAD BIT 38     1310.00 80    032370.00
        BZXE,SERS            -FROM INDEX                1304.32 CO    032370.40
                              -TEST BIT 37
1289    LX,$X0,BIT9           -OPERAND USED IN LC      33342.00 10    032371.00
        SX,$X0,$X1            -PLACE IN INDEX STORAGE     21.01 10    032371.40
        SX,$X0,$R            -PLACE IN INTERNAL REG       11.01 10    032372.00
        LC,$X0,BIT9                                   33342.00 50    032372.40
        KC,$X0,BIT9                                   33342.01 90    032373.00
        SIC,SEN              -FAILED TO LOAD BIT 37     1310.00 80    032373.40
        BZXE,SERS            -FROM EXT MEM              1304.32 CO    032374.00
        LC,$X0,$X1                                       21.00 50    032374.40
        KC,$X0,BIT9                                   33342.01 90    032375.00
        SIC,SEN              -FAILED TO LOAD BIT 37     1310.00 80    032375.40
        BZXE,SERS            -FROM INDEX STORAGE        1304.32 CO    032376.00
        LC,$X0,$R                                        11.00 50    032376.40
        KC,$X0,BIT9                                   33342.01 90    032377.00
        SIC,SEN              -FAILED TO LOAD BIT 37     1310.00 80    032377.40
        BZXE,SERS            -FROM INDEX                1304.32 CO    032400.00
        B,$+1.0                                       32401.50 00    032400.40
        BD,1287                                       32352.04 00    032401.00
        SIC,SEN0+0.32                                  1311.40 80    032401.40
        B,SSW                                         1301.10 00    032402.00
        BD,$+.32                                      32403.04 00    032402.40

        LX,$X13,IC228        -UPDATE CONTINUITY CHECK. 32631.32 10    032403.00
        V+,$X13,BIT2                                  33333.32 BO    032403.40
        SX,$X13,IC228                                 32631.33 10    032404.00
        B,12810                                       32405.10 00    032404.40
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                                  -TEST BIT 36
12810    LX,$X0,BIT8              -OPERAND USED IN LC        33341.00 10      032405.00
         SX,$X0,$X1              -PLACE IN INDEX STORAGE      21.01 10        032405.40
         SX,$X0,$R              -PLACE IN INTERNAL REG        11.01 10        032406.00
         LC,$X0,BIT8                                        33341.00 50       032406.40
         KC,$X0,BIT8                                        33341.01 90       032407.00
         SIC,SEN                 -FAILED TO LOAD BIT 36      1310.00 80       032407.40
         BZXE,SERS               -FROM EXT MEM              1304.32 C0        032410.00
         LC,$X0,$X1                                           21.00 50        032410.40
         KC,$X0,BIT8                                        33341.01 90       032411.00
         SIC,SEN                 -FAILED TO LOAD BIT 36      1310.00 80       032411.40
         BZXE,SERS               -FROM INDEX STORAGE        1304.32 C0        032412.00
         LC,$X0,$R                                           11.00 50         032412.40
         KC,$X0,BIT8                                        33341.01 90       032413.00
         SIC,SEN                 -FAILED TO LOAD BIT 36      1310.00 80       032413.40
         BZXE,SERS               -FROM INDEX               1304.32 C0         032414.00
                                  -TEST BIT 35
12811    LX,$X0,BIT7             -OPERAND USED IN LC         33340.00 10      032414.40
         SX,$X0,$X1             -PLACE IN INDEX STORAGE       21.01 10        032415.00
         SX,$X0,$R             -PLACE IN INTERNAL REG         11.01 10        032415.40
         LC,$X0,BIT7                                        33340.00 50       032416.00
         KC,$X0,BIT7                                        33340.01 90       032416.40
         SIC,SEN                 -FAILED TO LOAD BIT 35      1310.00 80       032417.00
         BZXE,SERS               -FROM EXT MEM              1304.32 C0        032417.40
         LC,$X0,$X1                                           21.00 50        032420.00
         KC,$X0,BIT7                                        33340.01 90       032420.40
         SIC,SEN                 -FAILED TO LOAD BIT 35      1310.00 80       032421.00
         BZXE,SERS               -FROM INDEX STORAGE        1304.32 C0        032421.40
         LC,$X0,$R                                           11.00 50         032422.00
         KC,$X0,BIT7                                        33340.01 90       032422.40
         SIC,SEN                 -FAILED TO LOAD BIT 35      1310.00 80       032423.00
         BZXE,SERS               -FROM INDEX               1304.32 C0         032423.40
                                    -TEST BIT 34
12812    LX,$X0,BIT6              -OPERAND USED IN LC        33337.00 10      032424.00
         SX,$X0,$X1             -PLACE IN INDEX STORAGE       21.01 10        032424.40
         SX,$X0,$R             -PLACE IN INTERNAL REG         11.01 10        032425.00
         LC,$X0,BIT6                                        33337.00 50       032425.40
         KC,$X0,BIT6                                        33337.01 90       032426.00
         SIC,SEN                 -FAILED TO LOAD BIT 34      1310.00 80       032426.40
         BZXE,SERS               -FROM EXT MEM              1304.32 C0        032427.00
         LC,$X0,$X1                                           21.00 50        032427.40
         KC,$X0,BIT6                                        33337.01 90       032430.00
         SIC,SEN                 -FAILED TO LOAD BIT 34      1310.00 80       032430.40
         BZXE,SERS               -FROM INDEX STORAGE        1304.32 C0        032431.00
         LC,$X0,$R                                           11.00 50         032431.40
         KC,$X0,BIT6                                        33337.01 90       032432.00
         SIC,SEN                 -FAILED TO LOAD BIT 34      1310.00 80       032432.40
         BZXE,SERS               -FROM INDEX               1304.32 C0         032433.00
         B,$+1.0                                            32434.50 00       032433.40
         BD,12810                                           32405.04 00       032434.00
         SIC,SEN0+0.32                                       1311.40 80       032434.40
         B,SSW                                               1301.10 00       032435.00
         BD,$+.32                                           32436.04 00       032435.40

         LX,$X13,IC228           -UPDATE CONTINUITY CHECK.   32631.32 10      032436.00
         V+,$X13,BIT3                                       33334.32 B0       032436.40
         SX,$X13,IC228                                      32631.33 10       032437.00
         B,12813                                            32440.10 00       032437.40
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                                        -TEST BIT 33
12813   LX,$X0,BIT5      -OPERAND USED IN LC         33336.00 10      032440.00
        SX,$X0,$X1       -PLACE IN INDEX STORAGE       21.01 10      032440.40
        SX,$X0,$R        -PLACE IN INTERNAL REG        11.01 10      032441.00
        LC,$X0,BIT5                                  33336.00 50      032441.40
        KC,$X0,BIT5                                  33336.01 90      032442.00
        SIC,SEN          -FAILED TO LOAD BIT 33       1310.00 80      032442.40
        BZXE,SERS        -FROM EXT MEM                1304.32 C0      032443.00
        LC,$X0,$X1                                     21.00 50      032443.40
        KC,$X0,BIT5                                  33336.01 90      032444.00
        SIC,SEN          -FAILED TO LOAD BIT 33       1310.00 80      032444.40
        BZXE,SERS        -FROM INDEX STORAGE          1304.32 C0      032445.00
        LC,$X0,$R                                      11.00 50      032445.40
        KC,$X0,BIT5                                  33336.01 90      032446.00
        SIC,SEN          -FAILED TO LOAD BIT 33       1310.00 80      032446.40
        BZXE,SERS        -FROM INDEX                  1304.32 C0      032447.00
                         -TEST BIT 32
12814   LX,$X0,BIT4      -OPERAND USED IN LC         33335.00 10      032447.40
        SX,$X0,$X1       -PLACE IN INDEX STORAGE       21.01 10      032450.00
        SX,$X0,$R        -PLACE IN INTERNAL REG        11.01 10      032450.40
        LC,$X0,BIT4                                  33335.00 50      032451.00
        KC,$X0,BIT4                                  33335.01 90      032451.40
        SIC,SEN          -FAILED TO LOAD BIT 32       1310.00 80      032452.00
        BZXE,SERS        -FROM EXT MEM                1304.32 C0      032452.40
        LC,$X0,$X1                                     21.00 50      032453.00
        KC,$X0,BIT4                                  33335.01 90      032453.40
        SIC,SEN          -FAILED TO LOAD BIT 32       1310.00 80      032454.00
        BZXE,SERS        -FROM INDEX STORAGE          1304.32 C0      032454.40
        LC,$X0,$R                                      11.00 50      032455.00
        KC,$X0,BIT4                                  33335.01 90      032455.40
        SIC,SEN          -FAILED TO LOAD BIT 32       1310.00 80      032456.00
        BZXE,SERS        -FROM INDEX                  1304.32 C0      032456.40
                         -TEST BIT 31
12815   LX,$X0,BIT3      -OPERAND USED IN LC         33334.00 10      032457.00
        SX,$X0,$X1       -PLACE IN INDEX STORAGE       21.01 10      032457.40
        SX,$X0,$R        -PLACE IN INTERNAL REG        11.01 10      032460.00
        LC,$X0,BIT3                                  33334.00 50      032460.40
        KC,$X0,BIT3                                  33334.01 90      032461.00
        SIC,SEN          -FAILED TO LOAD BIT 31       1310.00 80      032461.40
        BZXE,SERS        -FROM EXT MEM                1304.32 C0      032462.00
        LC,$X0,$X1                                     21.00 50      032462.40
        KC,$X0,BIT3                                  33334.01 90      032463.00
        SIC,SEN          -FAILED TO LOAD BIT 31       1310.00 80      032463.40
        BZXE,SERS        -FROM INDEX STORAGE          1304.32 C0      032464.00
        LC,$X0,$R                                      11.00 50      032464.40
        KC,$X0,BIT3                                  33334.01 90      032465.00
        SIC,SEN          -FAILED TO LOAD BIT 31       1310.00 80      032465.40
        BZXE,SERS        -FROM INDEX                  1304.32 C0      032466.00
        B,$+1.0                                      32467.50 00      032466.40
        BD,12813                                     32440.04 00      032467.00
        SIC,SEN0+0.32                                 1311.40 80      032467.40
        B,SSW                                         1301.10 00      032470.00
        BD,$+.32                                     32471.04 00      032470.40

        LX,$X13,IC228    -UPDATE CONTINUITY CHECK.   32631.32 10      032471.00
        V+,$X13,BIT4                                 33335.32 B0      032471.40
        SX,$X13,IC228                                32631.33 10      032472.00
        B,12816                                      32473.10 00      032472.40
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		—TEST BIT 30		
12816	LX,$X0,BIT2	—OPERAND USED IN LC	33333.00 10	032473.00
	SX,$X0,$X1	—PLACE IN INDEX STORAGE	21.01 10	032473.40
	SX,$X0,$R	—PLACE IN INTERNAL REG	11.01 10	032474.00
	LC,$X0,BIT2		33333.00 50	032474.40
	KC,$X0,BIT2		33333.01 90	032475.00
	SIC,SEN	—FAILED TO LOAD BIT 30	1310.00 80	032475.40
	BZXE,SERS	—FROM EXT MEM	1304.32 C0	032476.00
	LC,$X0,$X1		21.00 50	032476.40
	KC,$X0,BIT2		33333.01 90	032477.00
	SIC,SEN	—FAILED TO LOAD BIT 30	1310.00 80	032477.40
	BZXE,SERS	—FROM INDEX STORAGE	1304.32 C0	032500.00
	LC,$X0,$R		11.00 50	032500.40
	KC,$X0,BIT2		33333.01 90	032501.00
	SIC,SEN	—FAILED TO LOAD BIT 30	1310.00 80	032501.40
	BZXE,SERS	—FROM INDEX	1304.32 C0	032502.00
		—TEST BIT 29		
12817	LX,$X0,BIT1	—OPERAND USED IN LC	33332.00 10	032502.40
	SX,$X0,$X1	—PLACE IN INDEX STORAGE	21.01 10	032503.00
	SX,$X0,$R	—PLACE IN INTERNAL REG	11.01 10	032503.40
	LC,$X0,BIT1		33332.00 50	032504.00
	KC,$X0,BIT1		33332.01 90	032504.40
	SIC,SEN	—FAILED TO LOAD BIT 29	1310.00 80	032505.00
	BZXE,SERS	—FROM EXT MEM	1304.32 C0	032505.40
	LC,$X0,$X1		21.00 50	032506.00
	KC,$X0,BIT1		33332.01 90	032506.40
	SIC,SEN	—FAILED TO LOAD BIT 29	1310.00 80	032507.00
	BZXE,SERS	—FROM INDEX STORAGE	1304.32 C0	032507.40
	LC,$X0,$R		11.00 50	032510.00
	KC,$X0,BIT1		33332.01 90	032510.40
	SIC,SEN	—FAILED TO LOAD BIT 29	1310.00 80	032511.00
	BZXE,SERS	—FROM INDEX	1304.32 C0	032511.40
		—TEST BIT 28		
12818	LX,$X0,BIT0	—OPERAND USED IN LC	33331.00 10	032512.00
	SX,$X0,$X1	—PLACE IN INDEX STORAGE	21.01 10	032512.40
	SX,$X0,$R	—PLACE IN INTERNAL REG	11.01 10	032513.00
	LC,$X0,BIT0		33331.00 50	032513.40
	KC,$X0,BIT0		33331.01 90	032514.00
	SIC,SEN	—FAILED TO LOAD BIT 28	1310.00 80	032514.40
	BZXE,SERS	—FROM EXT MEM	1304.32 C0	032515.00
	LC,$X0,$X1		21.00 50	032515.40
	KC,$X0,BIT0		33331.01 90	032516.00
	SIC,SEN	—FAILED TO LOAD BIT 28	1310.00 80	032516.40
	BZXE,SERS	—FROM INDEX STORAGE	1304.32 C0	032517.00
	LC,$X0,$R		11.00 50	032517.40
	KC,$X0,BIT0		33331.01 90	032520.00
	SIC,SEN	—FAILED TO LOAD BIT 28	1310.00 80	032520.40
	BZXE,SERS	—FROM INDEX	1304.32 C0	032521.00
	B,$+1.0		32522.50 00	032521.40
	BD,12816		32473.04 00	032522.00
	SIC,SEN0+0.32		1311.40 80	032522.40
	B,SSW		1301.10 00	032523.00
	BD,$+.32		32524.04 00	032523.40
	LX,$X13,IC228	—UPDATE CONTINUITY CHECK.	32631.32 10	032524.00
	V+,$X13,BIT5		33336.32 B0	032524.40
	SX,$X13,IC228		32631.33 10	032525.00
	B,12819		32526.50 00	032525.40
	BD,$+.32		32526.44 00	032526.00

```
                              -TEST ALL ZEROS
 12819   LX,$X0,100Z          -OPERAND USED IN LC        33311.00 10      032526.40
         SX,$X0,$X1           -PLACE IN INDEX STORAGE       21.01 10      032527.00
         SX,$X0,$R            -PLACE IN INTERNAL REG        11.01 10      032527.40
         LC,$X0,100Z                                    33311.00 50      032530.00
         KC,$X0,100Z                                    33311.01 90      032530.40
         SIC,SEN              -FAILED TO LOAD ALL ZEROS   1310.00 80      032531.00
         BZXE,SERS            -FROM EXT MEM               1304.32 CO      032531.40
         LC,$X0,$X1                                        21.00 50      032532.00
         KC,$X0,100Z                                    33311.01 90      032532.40
         SIC,SEN              -FAILED TO LOAD ALL ZEROS   1310.00 80      032533.00
         BZXE,SERS            -FROM INDEX STORAGE         1304.32 CO      032533.40
         LC,$X0,$R                                         11.00 50      032534.00
         KC,$X0,100Z                                    33311.01 90      032534.40
         SIC,SEN              -FAILED TO LOAD ALL ZEROS   1310.00 80      032535.00
         BZXE,SERS            -FROM INDEX               1304.32 CO      032535.40
                              -TEST ALL ONES
 12820   LX,$X0,1000          -OPERAND USED IN LC        33312.00 10      032536.00
         SX,$X0,$X1           -PLACE IN INDEX STORAGE       21.01 10      032536.40
         SX,$X0,$R            -PLACE IN INTERNAL REG        11.01 10      032537.00
         LC,$X0,1000                                    33312.00 50      032537.40
         KC,$X0,1000                                    33312.01 90      032540.00
         SIC,SEN              -FAILED TO LOAD ALL ONES    1310.00 80      032540.40
         BZXE,SERS            -FROM EXT MEM               1304.32 CO      032541.00
         LC,$X0,$X1                                        21.00 50      032541.40
         KC,$X0,1000                                    33312.01 90      032542.00
         SIC,SEN              -FAILED TO LOAD ALL ONES    1310.00 80      032542.40
         BZXE,SERS            -FROM INDEX STORAGE         1304.32 CO      032543.00
         LC,$X0,$R                                         11.00 50      032543.40
         KC,$X0,1000                                    33312.01 90      032544.00
         SIC,SEN              -FAILED TO LOAD ALL ONES    1310.00 80      032544.40
         BZXE,SERS            -FROM INDEX               1304.32 CO      032545.00
         B,$+1.0                                        32546.50 00      032545.40
         BD,12819                                       32526.44 00      032546.00
         SIC,SEN0+0.32                                   1311.40 80      032546.40
         B,SSW                                           1301.10 00      032547.00
         BD,$+.32                                       32550.04 00      032547.40

         LX,$X13,IC228        -UPDATE CONTINUITY CHECK.  32631.32 10      032550.00
         V+,$X13,BIT6                                   33337.32 BO      032550.40
         SX,$X13,IC228                                  32631.33 10      032551.00
         B,12821                                        32552.50 00      032551.40
         BD,$+.32                                       32552.44 00      032552.00
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12821   LCI,$X0,%8¤000001      -TEST BIT 45              1.01 02      032552.40
        KC,$X0,BIT17                                  33352.01 90    032553.00
        SIC,SEN                -FAILED TO LOAD BIT 45   1310.00 80    032553.40
        BZXE,SERS                                       1304.32 CO    032554.00
        LCI,$X0,%8¤000002      -TEST BIT 44              2.01 02      032554.40
        KC,$X0,BIT16                                  33351.01 90    032555.00
        SIC,SEN                                         1310.00 80    032555.40
        BZXE,SERS              -FAILED TO LOAD BIT 44   1304.32 CO    032556.00
        LCI,$X0,%8¤000004      -TEST BIT 43              4.01 02      032556.40
        KC,$X0,BIT15                                  33350.01 90    032557.00
        SIC,SEN                                         1310.00 80    032557.40
        BZXE,SERS              -FAILED TO LOAD BIT 43   1304.32 CO    032560.00
        LCI,$X0,%8¤000010      -TEST BIT 42             10.01 02      032560.40
        KC,$X0,BIT14                                  33347.01 90    032561.00
        SIC,SEN                                         1310.00 80    032561.40
        BZXE,SERS              -FAILED TO LOAD BIT 42   1304.32 CO    032562.00
12822   LCI,$X0,%8¤000020      -TEST BIT 41             20.01 02      032562.40
        KC,$X0,BIT13                                  33346.01 90    032563.00
        SIC,SEN                -FAILED TO LOAD BIT 41   1310.00 80    032563.40
        BZXE,SERS                                       1304.32 CO    032564.00
        LCI,$X0,%8¤000040      -TEST BIT 40             40.01 02      032564.40
        KC,$X0,BIT12                                  33345.01 90    032565.00
        SIC,SEN                                         1310.00 80    032565.40
        BZXE,SERS              -FAILED TO LOAD BIT 40   1304.32 CO    032566.00
        LCI,$X0,%8¤000100      -TEST BIT 39            100.01 02      032566.40
        KC,$X0,BIT11                                  33344.01 90    032567.00
        SIC,SEN                                         1310.00 80    032567.40
        BZXE,SERS              -FAILED TO LOAD BIT 39   1304.32 CO    032570.00
        LCI,$X0,%8¤000200      -TEST BIT 38            200.01 02      032570.40
        KC,$X0,BIT10                                  33343.01 90    032571.00
        SIC,SEN                                         1310.00 80    032571.40
        BZXE,SERS              -FAILED TO LOAD BIT 38   1304.32 CO    032572.00
12823   LCI,$X0,%8¤000400      -TEST BIT 37            400.01 02      032572.40
        KC,$X0,BIT9                                   33342.01 90    032573.00
        SIC,SEN                -FAILED TO LOAD BIT 37   1310.00 80    032573.40
        BZXE,SERS                                       1304.32 CO    032574.00
        LCI,$X0,%8¤001000      -TEST BIT 36           1000.01 02      032574.40
        KC,$X0,BIT8                                   33341.01 90    032575.00
        SIC,SEN                                         1310.00 80    032575.40
        BZXE,SERS              -FAILED TO LOAD BIT 36   1304.32 CO    032576.00
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              LCI,$X0,%8□002000       -TEST BIT 35          2000.01 02              032576.40
              KC,$X0,BIT7                                  33340.01 90              032577.00
              SIC,SEN                                       1310.00 80              032577.40
              BZXE,SERS               -FAILED TO LOAD BIT 35 1304.32 C0              032600.00
              LCI,$X0,%8□004000       -TEST BIT 34          4000.01 02              032600.40
              KC,$X0,BIT6                                  33337.01 90              032601.00
              SIC,SEN                                       1310.00 80              032601.40
              BZXE,SERS               -FAILED TO LOAD BIT 34 1304.32 C0              032602.00
12824         LCI,$X0,%8□010000       -TEST BIT 33         10000.01 02              032602.40
              KC,$X0,BIT5                                  33336.01 90              032603.00
              SIC,SEN                 -FAILED TO LOAD BIT 33 1310.00 80              032603.40
              BZXE,SERS                                     1304.32 C0              032604.00
              LCI,$X0,%8□020000       -TEST BIT 32         20000.01 02              032604.40
              KC,$X0,BIT4                                  33335.01 90              032605.00
              SIC,SEN                                       1310.00 80              032605.40
              BZXE,SERS               -FAILED TO LOAD BIT 32 1304.32 C0              032606.00
              LCI,$X0,%8□040000       -TEST BIT 31         40000.01 02              032606.40
              KC,$X0,BIT3                                  33334.01 90              032607.00
              SIC,SEN                                       1310.00 80              032607.40
              BZXE,SERS               -FAILED TO LOAD BIT 31 1304.32 C0              032610.00
              LCI,$X0,%8□100000       -TEST BIT 30        100000.01 02              032610.40
              KC,$X0,BIT2                                  33333.01 90              032611.00
              SIC,SEN                                       1310.00 80              032611.40
              BZXE,SERS               -FAILED TO LOAD BIT 30 1304.32 C0              032612.00
12825         LCI,$X0,%8□200000       -TEST BIT 29        200000.01 02              032612.40
              KC,$X0,BIT1                                  33332.01 90              032613.00
              SIC,SEN                 -FAILED TO LOAD BIT 29. 1310.00 80             032613.40
              BZXE,SERS                                     1304.32 C0              032614.00
              LCI,$X0,%8□400000       -TEST BIT 28        400000.01 02              032614.40
              KC,$X0,BIT0                                  33331.01 90              032615.00
              SIC,SEN                                       1310.00 80              032615.40
              BZXE,SERS               -FAILED TO LOAD BIT 28 1304.32 C0              032616.00
              LCI,$X0,%8□777777       -TEST ALL ONES     777777.01 02              032616.40
              KC,$X0,1000                                  33312.01 90              032617.00
              SIC,SEN                                       1310.00 80              032617.40
              BZXE,SERS               -FAILED TO LOAD ALL ONES 1304.32 C0           032620.00
              LCI,$X0,%8□000000       -TEST ALL ZEROS         0.01 02              032620.40
              KC,$X0,100Z                                  33311.01 90              032621.00
              SIC,SEN                                       1310.00 80              032621.40
              BZXE,SERS               -FAILED TO LOAD ALL ZEROS 1304.32 C0          032622.00
              B,$+1.0                                      32623.50 00              032622.40
              BD,12821                                     32552.44 00              032623.00
              SIC,SEN0+0.32                                 1311.40 80              032623.40
              B,SSW                                         1301.10 00              032624.00
              BD,$+.32                                     32625.04 00              032624.40

              LX,$X13,IC228           -UPDATE CONTINUITY CHECK. 32631.32 10         032625.00
              V+,$X13,BIT7                                 33340.32 B0              032625.40
              SX,$X13,IC228                                32631.33 10              032626.00

              LX,$X13,IC228           -UPDATE CONTINUITY CHECK. 32631.32 10         032626.40
              KV,$X13,ICK228                               32632.32 90              032627.00
              SIC,SEN                                       1310.00 80              032627.40
              BZXE,SERS               -CONTINUITY ERROR.    1304.32 C0              032630.00
              B,130                                        32634.10 00              032630.40
              CNOP

IC228         XW,0,0,0                -CONTINUITY REG 1228.     0.00 00 000000.00 00 032631.00
ICK228        XW,%8□776000.00,0,0                        776000.00 00 000000.00 00  032632.00

1281D         %IQSZ□DD%BU,64,8□,1228        Z                                       032633.00
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----1230---TEST LOAD REFILL AND LOAD REFILL IMMED.

                                    -TEST CORRECT LOADING OF
                                    -EVERY POSITION OF REFILL
                                    -FIELD

130   LX,$X0,1301D   33302.00 10   032634.00
        SX,$X0,DPET13   -UPDATE IDENTIFICATION   1437.01 10   032634.40
        SIC,RET   1306.40 80   032635.00
              B,IDF1   -PRINT ID.   1443.10 00   032635.40
              Z,IC230   33277.22 00   032636.00

                                    -TEST BIT 63

1301   LX,$X0,BIT63   -OPERAND USED IN LR   33430.00 10   032636.40
        BD,$+.32   32637.44 00   032637.00
        SR,$X0,$X1   -PLACE IN INDEX STORAGE   21.01 70   032637.40
        SR,$X0,$R   -PLACE IN INTERNAL REG   11.01 70   032640.00
        SR,$X0,$X2   -SET UP X2 FOR KV   22.01 70   032640.40
        LR,$X0,BIT17   33352.00 70   032641.00
        SR,$X0,130ST   33301.01 70   032641.40
        KV,$X2,130ST   33301.04 90   032642.00
        SIC,SEN   -FAILED TO LOAD BIT 63   1310.00 80   032642.40
        BZXE,SERS   -FROM EXT MEM   1304.32 CO   032643.00
        LR,$X0,$X1   21.00 70   032643.40
        SR,$X0,130ST   33301.01 70   032644.00
        KV,$X2,130ST   33301.04 90   032644.40
        SIC,SEN   -FAILED TO LOAD BIT 63   1310.00 80   032645.00
        BZXE,SERS   -FROM INDEX FTORAGE   1304.32 CO   032645.40
        LR,$X0,$R   11.00 70   032646.00
        SR,$X0,130ST   33301.01 70   032646.40
        KV,$X2,130ST   33301.04 90   032647.00
        SIC,SEN   -FAILED TO LOAD BIT 63   1310.00 80   032647.40
        BZXE,SERS   -FROM INTERNAL REG   1304.32 CO   032650.00

                                    -TEST BIT 62

1302   LX,$X0,BIT62   -OPERAND USED IN LR   33427.00 10   032650.40
        SR,$X0,$X1   -PLACE IN INDEX STORAGE   21.01 70   032651.00
        SR,$X0,$R   -PLACE IN INTERNAL REG   11.01 70   032651.40
        SR,$X0,$X2   -SET UP X2 FOR KV   22.01 70   032652.00
        LR,$X0,BIT16   33351.00 70   032652.40
        SR,$X0,130ST   33301.01 70   032653.00
        KV,$X2,130ST   33301.04 90   032653.40
        SIC,SEN   -FAILED TO LOAD BIT 62   1310.00 80   032654.00
        BZXE,SERS   -FROM EXT MEM   1304.32 CO   032654.40
        LR,$X0,$X1   21.00 70   032655.00
        SR,$X0,130ST   33301.01 70   032655.40
        KV,$X2,130ST   33301.04 90   032656.00
        SIC,SEN   -FAILED TO LOAD BIT 62   1310.00 80   032656.40
        BZXE,SERS   -FROM INDEX STORAGE   1304.32 CO   032657.00
        LR,$X0,$R   11.00 70   032657.40
        SR,$X0,130ST   33301.01 70   032660.00
        KV,$X2,130ST   33301.04 90   032660.40
        SIC,SEN   -FAILED TO LOAD BIT 62   1310.00 80   032661.00
        BZXE,SERS   -FROM INTERNAL REG   1304.32 CO   032661.40

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                                    -TEST BIT 61

1303        LX,$X0,BIT61         -OPERAND USED IN LR              33426.00 10        032662.00
            SR,$X0,$X1           -PLACE IN INDEX STORAGE             21.01 70        032662.40
            SR,$X0,$R            -PLACE IN INTERNAL REG              11.01 70        032663.00
            SR,$X0,$X2           -SET UP X2 FOR KV                   22.01 70        032663.40
            LR,$X0,BIT15                                          33350.00 70        032664.00
            SR,$X0,I30ST                                          33301.01 70        032664.40
            KV,$X2,I30ST                                          33301.04 90        032665.00
            SIC,SEN              -FAILED TO LOAD BIT 61            1310.00 80        032665.40
            BZXE,SERS            -FROM EXT MEM                     1304.32 C0        032666.00
            LR,$X0,$X1                                               21.00 70        032666.40
            SR,$X0,I30ST                                          33301.01 70        032667.00
            KV,$X2,I30ST                                          33301.04 90        032667.40
            SIC,SEN             -FAILED TO LOAD BIT 61             1310.00 80        032670.00
            BZXE,SERS           -FROM INDEX STORAGE                1304.32 C0        032670.40
            LR,$X0,$R                                                11.00 70        032671.00
            SR,$X0,I30ST                                          33301.01 70        032671.40
            KV,$X2,I30ST                                          33301.04 90        032672.00
            SIC,SEN             -FAILED TO LOAD BIT 61             1310.00 80        032672.40
            BZXE,SERS           -FROM INTERNAL REG                 1304.32 C0        032673.00
            B,$+1.0                                              32674.50 00        032673.40
            BD,I301                                              32636.44 00        032674.00
            SIC,SEN0+0.32                                         1311.40 80        032674.40
            B,SSW                                                 1301.10 00        032675.00
            BD,$+.32                                             32676.04 00        032675.40

            LX,$X13,IC230        -UPDATE CONTINUITY CHECK.        33277.32 10        032676.00
            V+,$X13,BIT0                                          33331.32 B0        032676.40
            SX,$X13,IC230                                         33277.33 10        032677.00


                                    -TEST BIT 60

1304        LX,$X0,BIT60         -OPERAND USED IN LR              33425.00 10        032677.40
            BD,$+.32                                             32700.44 00        032700.00
            SR,$X0,$X1           -PLACE IN INDEX STORAGE             21.01 70        032700.40
            SR,$X0,$R            -PLACE IN INTERNAL REG              11.01 70        032701.00
            SR,$X0,$X2           -SET UP X2 FOR KV                   22.01 70        032701.40
            LR,$X0,BIT14                                          33347.00 70        032702.00
            SR,$X0,I30ST                                          33301.01 70        032702.40
            KV,$X2,I30ST                                          33301.04 90        032703.00
            SIC,SEN             -FAILED TO LOAD BIT 60             1310.00 80        032703.40
            BZXE,SERS           -FROM EXT MEM                      1304.32 C0        032704.00
            LR,$X0,$X1                                               21.00 70        032704.40
            SR,$X0,I30ST                                          33301.01 70        032705.00
            KV,$X2,I30ST                                          33301.04 90        032705.40
            SIC,SEN             -FAILED TO LOAD BIT 60             1310.00 80        032706.00
            BZXE,SERS           -FROM INDEX STORAGE                1304.32 C0        032706.40
            LR,$X0,$R                                                11.00 70        032707.00
            SR,$X0,I30ST                                          33301.01 70        032707.40
            KV,$X2,I30ST                                          33301.04 90        032710.00
            SIC,SEN             -FAILED TO LOAD BIT 60             1310.00 80        032710.40
            BZXE,SERS           -FROM INTERNAL REG                 1304.32 C0        032711.00
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                              -TEST BIT 59

1305        LX,$X0,BIT59      -OPERAND USED IN LR          33424.00 10      032711.40
            SR,$X0,$X1        -PLACE IN INDEX STORAGE         21.01 70      032712.00
            SR,$X0,$R         -PLACE IN INTERNAL REG          11.01 70      032712.40
            SR,$X0,$X2        -SET UP X2 FOR KV               22.01 70      032713.00
            LR,$X0,BIT13                                   33346.00 70      032713.40
            SR,$X0,I30ST                                   33301.01 70      032714.00
            KV,$X2,I30ST                                   33301.04 90      032714.40
            SIC,SEN           -FAILED TO LOAD BIT 59        1310.00 80      032715.00
            BZXE,SERS         -FROM EXT MEM                 1304.32 CO      032715.40
            LR,$X0,$X1                                       21.00 70      032716.00
            SR,$X0,I30ST                                   33301.01 70      032716.40
            KV,$X2,I30ST                                   33301.04 90      032717.00
            SIC,SEN           -FAILED TO LOAD BIT 59        1310.00 80      032717.40
            BZXE,SERS         -FROM INDEX STORAGE           1304.32 CO      032720.00
            LR,$X0,$R                                        11.00 70      032720.40
            SR,$X0,I30ST                                   33301.01 70      032721.00
            KV,$X2,I30ST                                   33301.04 90      032721.40
            SIC,SEN           -FAILED TO LOAD BIT 59        1310.00 80      032722.00
            BZXE,SERS         -FROM INTERNAL REG            1304.32 CO      032722.40

                              -TEST BIT 58

1306        LX,$X0,BIT58      -OPERAND USED IN LR          33423.00 10      032723.00
            SR,$X0,$X1        -PLACE IN INDEX STORAGE         21.01 70      032723.40
            SR,$X0,$R         -PLACE IN INTERNAL REG          11.01 70      032724.00
            SR,$X0,$X2        -SET UP X2 FOR KV               22.01 70      032724.40
            LR,$X0,BIT12                                   33345.00 70      032725.00
            SR,$X0,I30ST                                   33301.01 70      032725.40
            KV,$X2,I30ST                                   33301.04 90      032726.00
            SIC,SEN           -FAILED TO LOAD BIT 58        1310.00 80      032726.40
            BZXE,SERS         -FROM EXT MEM                 1304.32 CO      032727.00
            LR,$X0,$X1                                       21.00 70      032727.40
            SR,$X0,I30ST                                   33301.01 70      032730.00
            KV,$X2,I30ST                                   33301.04 90      032730.40
            SIC,SEN           -FAILED TO LOAD BIT 58        1310.00 80      032731.00
            BZXE,SERS         -FROM INDEX STORAGE           1304.32 CO      032731.40
            LR,$X0,$R                                        11.00 70      032732.00
            SR,$X0,I30ST                                   33301.01 70      032732.40
            KV,$X2,I30ST                                   33301.04 90      032733.00
            SIC,SEN           -FAILED TO LOAD BIT 58        1310.00 80      032733.40
            BZXE,SERS         -FROM INTERNAL REG            1304.32 CO      032734.00
            B,$+1.0                                       32735.50 00      032734.40
            BD,1304                                       32677.44 00      032735.00
            SIC,SEN0+0.32                                  1311.40 80      032735.40
            B,SSW                                          1301.10 00      032736.00
            BD,$+.32                                       32737.04 00      032736.40

            LX,$X13,IC230     -UPDATE CONTINUITY CHECK.    33277.32 10      032737.00
            V+,$X13,BIT1                                   33332.32 BO      032737.40
            SX,$X13,IC230                                  33277.33 10      032740.00
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                              -TEST BIT 57

1307    LX,$X0,BIT57        -OPERAND USED IN LR          33422.00 10         032740.40
        BD,$+.32                                         32741.44 00         032741.00
        SR,$X0,$X1          -PLACE IN INDEX STORAGE          21.01 70        032741.40
        SR,$X0,$R           -PLACE IN INTERNAL REG           11.01 70        032742.00
        SR,$X0,$X2          -SET UP X2 FOR KV                22.01 70        032742.40
        LR,$X0,BIT11                                     33344.00 70         032743.00
        SR,$X0,I30ST                                     33301.01 70         032743.40
        KV,$X2,I30ST                                     33301.04 90         032744.00
        SIC,SEN             -FAILED TO LOAD BIT 57        1310.00 80         032744.40
        BZXE,SERS           -FROM EXT MEM                1304.32 CO          032745.00
        LR,$X0,$X1                                           21.00 70        032745.40
        SR,$X0,I30ST                                     33301.01 70         032746.00
        KV,$X2,I30ST                                     33301.04 90         032746.40
        SIC,SEN             -FAILED TO LOAD BIT 57        1310.00 80         032747.00
        BZXE,SERS           -FROM INDEX STORAGE          1304.32 CO          032747.40
        LR,$X0,$R                                            11.00 70        032750.00
        SR,$X0,I30ST                                     33301.01 70         032750.40
        KV,$X2,I30ST                                     33301.04 90         032751.00
        SIC,SEN             -FAILED TO LOAD BIT 57        1310.00 80         032751.40
        BZXE,SERS           -FROM INTERNAL REG           1304.32 CO          032752.00

                              -TEST BIT 56

1308    LX,$X0,BIT56        -OPERAND USED IN LR          33421.00 10         032752.40
        SR,$X0,$X1          -PLACE IN INDEX STORAGE          21.01 70        032753.00
        SR,$X0,$R           -PLACE IN INTERNAL REG           11.01 70        032753.40
        SR,$X0,$X2          -SET UP X2 FOR KV                22.01 70        032754.00
        LR,$X0,BIT10                                     33343.00 70         032754.40
        SR,$X0,I30ST                                     33301.01 70         032755.00
        KV,$X2,I30ST                                     33301.04 90         032755.40
        SIC,SEN             -FAILED TO LOAD BIT 56        1310.00 80         032756.00
        BZXE,SERS           -FROM EXT MEM                1304.32 CO          032756.40
        LR,$X0,$X1                                           21.00 70        032757.00
        SR,$X0,I30ST                                     33301.01 70         032757.40
        KV,$X2,I30ST                                     33301.04 90         032760.00
        SIC,SEN             -FAILED TO LOAD BIT 56        1310.00 80         032760.40
        BZXE,SERS           -FROM INDEX STORAGE          1304.32 CO          032761.00
        LR,$X0,$R                                            11.00 70        032761.40
        SR,$X0,I30ST                                     33301.01 70         032762.00
        KV,$X2,I30ST                                     33301.04 90         032762.40
        SIC,SEN             -FAILED TO LOAD BIT 56        1310.00 80         032763.00
        BZXE,SERS           -FROM INTERNAL REG           1304.32 CO          032763.40
```

```
                                          -TEST BIT 55

1309    LX,$X0,BIT55      -OPERAND USED IN LR        33420.00 10      032764.00
        SR,$X0,$X1        -PLACE IN INDEX STORAGE      21.01 70      032764.40
        SR,$X0,$R         -PLACE IN INTERNAL REG       11.01 70      032765.00
        SR,$X0,$X2        -SET UP X2 FOR KV            22.01 70      032765.40
        LR,$X0,BIT9                                 33342.00 70      032766.00
        SR,$X0,130ST                               33301.01 70      032766.40
        KV,$X2,130ST                               33301.04 90      032767.00
        SIC,SEN           -FAILED TO LOAD BIT 55     1310.00 80      032767.40
        BZXE,SERS         -FROM EXT MEM              1304.32 C0      032770.00
        LR,$X0,$X1                                    21.00 70      032770.40
        SR,$X0,130ST                               33301.01 70      032771.00
        KV,$X2,130ST                               33301.04 90      032771.40
        SIC,SEN           -FAILED TO LOAD BIT 55     1310.00 80      032772.00
        BZXE,SERS         -FROM INDEX STORAGE        1304.32 C0      032772.40
        LR,$X0,$R                                     11.00 70      032773.00
        SR,$X0,130ST                               33301.01 70      032773.40
        KV,$X2,130ST                               33301.04 90      032774.00
        SIC,SEN           -FAILED TO LOAD BIT 55     1310.00 80      032774.40
        BZXE,SERS         -FROM INTERNAL REG         1304.32 C0      032775.00
        B,$+1.0                                    32776.50 00      032775.40
        BD,1307                                    32740.44 00      032776.00
        SIC,SEN0+0.32                               1311.40 80      032776.40
        B,SSW                                       1301.10 00      032777.00
        BD,$+.32                                   33000.04 00      032777.40

        LX,$X13,IC230     -UPDATE CONTINUITY CHECK.  33277.32 10      033000.00
        V+,$X13,BIT2                               33333.32 B0      033000.40
        SX,$X13,IC230                              33277.33 10      033001.00

                                          -TEST BIT 54

13010   LX,$X0,BIT54      -OPERAND USED IN LR        33417.00 10      033001.40
        BD,$+.32                                   33002.44 00      033002.00
        SR,$X0,$X1        -PLACE IN INDEX STORAGE      21.01 70      033002.40
        SR,$X0,$R         -PLACE IN INTERNAL REG       11.01 70      033003.00
        SR,$X0,$X2        -SET UP X2 FOR KV            22.01 70      033003.40
        LR,$X0,BIT8                                 33341.00 70      033004.00
        SR,$X0,130ST                               33301.01 70      033004.40
        KV,$X2,130ST                               33301.04 90      033005.00
        SIC,SEN           -FAILED TO LOAD BIT 54     1310.00 80      033005.40
        BZXE,SERS         -FROM EXT MEM              1304.32 C0      033006.00
        LR,$X0,$X1                                    21.00 70      033006.40
        SR,$X0,130ST                               33301.01 70      033007.00
        KV,$X2,130ST                               33301.04 90      033007.40
        SIC,SEN           -FAILED TO LOAD BIT 54     1310.00 80      033010.00
        BZXE,SERS         -FROM INDEX STORAGE        1304.32 C0      033010.40
        LR,$X0,$R                                     11.00 70      033011.00
        SR,$X0,130ST                               33301.01 70      033011.40
        KV,$X2,130ST                               33301.04 90      033012.00
        SIC,SEN           -FAILED TO LOAD BIT 54     1310.00 80      033012.40
        BZXE,SERS         -FROM INTERNAL REG         1304.32 C0      033013.00
```

```
                              -TEST BIT 53

13011   LX,$X0,BIT53        -OPERAND USED IN LR          33416.00 10        033013.40
        SR,$X0,$X1          -PLACE IN INDEX STORAGE         21.01 70        033014.00
        SR,$X0,$R           -PLACE IN INTERNAL REG          11.01 70        033014.40
        SR,$X0,$X2          -SET UP X2 FOR KV               22.01 70        033015.00
        LR,$X0,BIT7                                      33340.00 70        033015.40
        SR,$X0,130ST                                    33301.01 70        033016.00
        KV,$X2,130ST                                    33301.04 90        033016.40
        SIC,SEN             -FAILED TO LOAD BIT 53        1310.00 80        033017.00
        BZXE,SERS           -FROM EXT MEM                1304.32 CO        033017.40
        LR,$X0,$X1                                          21.00 70        033020.00
        SR,$X0,130ST                                    33301.01 70        033020.40
        KV,$X2,130ST                                    33301.04 90        033021.00
        SIC,SEN             -FAILED TO LOAD BIT 53        1310.00 80        033021.40
        BZXE,SERS           -FROM INDEX STORAGE          1304.32 CO        033022.00
        LR,$X0,$R                                           11.00 70        033022.40
        SR,$X0,130ST                                    33301.01 70        033023.00
        KV,$X2,130ST                                    33301.04 90        033023.40
        SIC,SEN             -FAILED TO LOAD BIT 53        1310.00 80        033024.00
        BZXE,SERS           -FROM INTERNAL REG           1304.32 CO        033024.40

                              -TEST BIT 52

13012   LX,$X0,BIT52        -OPERAND USED IN LR          33415.00 10        033025.00
        SR,$X0,$X1          -PLACE IN INDEX STORAGE         21.01 70        033025.40
        SR,$X0,$R           -PLACE IN INTERNAL REG          11.01 70        033026.00
        SR,$X0,$X2          -SET UP X2 FOR KV               22.01 70        033026.40
        LR,$X0,BIT6                                      33337.00 70        033027.00
        SR,$X0,130ST                                    33301.01 70        033027.40
        KV,$X2,130ST                                    33301.04 90        033030.00
        SIC,SEN             -FAILED TO LOAD BIT 52        1310.00 80        033030.40
        BZXE,SERS           -FROM EXT MEM                1304.32 CO        033031.00
        LR,$X0,$X1                                          21.00 70        033031.40
        SR,$X0,130ST                                    33301.01 70        033032.00
        KV,$X2,130ST                                    33301.04 90        033032.40
        SIC,SEN             -FAILED TO LOAD BIT 52        1310.00 80        033033.00
        BZXE,SERS           -FROM INDEX STORAGE          1304.32 CO        033033.40
        LR,$X0,$R                                           11.00 70        033034.00
        SR,$X0,130ST                                    33301.01 70        033034.40
        KV,$X2,130ST                                    33301.04 90        033035.00
        SIC,SEN             -FAILED TO LOAD BIT 52        1310.00 80        033035.40
        BZXE,SERS           -FROM INTERNAL REG           1304.32 CO        033036.00
        B,$+1.0                                         33037.50 00        033036.40
        BD,13010                                        33001.44 00        033037.00
        SIC,SEN0+0.32                                     1311.40 80        033037.40
        B,SSW                                            1301.10 00        033040.00
        BD,$+.32                                        33041.04 00        033040.40

        LX,$X13,IC230       -UPDATE CONTINUITY CHECK.    33277.32 10        033041.00
        V+,$X13,BIT3                                    33334.32 BO        033041.40
        SX,$X13,IC230                                   33277.33 10        033042.00
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                                -TEST BIT 51

13013   LX,$X0,BIT51      -OPERAND USED IN LR        33414.00 10      033042.40
        BD,$+.32                                     33043.44 00      033043.00
        SR,$X0,$X1        -PLACE IN INDEX STORAGE        21.01 70      033043.40
        SR,$X0,$R         -PLACE IN INTERNAL REG         11.01 70      033044.00
        SR,$X0,$X2        -SET UP X2 FOR KV              22.01 70      033044.40
        LR,$X0,BIT5                                  33336.00 70      033045.00
        SR,$X0,130ST                                 33301.01 70      033045.40
        KV,$X2,130ST                                 33301.04 90      033046.00
        SIC,SEN           -FAILED TO LOAD BIT 51       1310.00 80      033046.40
        BZXE,SERS         -FROM EXT MEM                1304.32 C0      033047.00
        LR,$X0,$X1                                       21.00 70      033047.40
        SR,$X0,130ST                                 33301.01 70      033050.00
        KV,$X2,130ST                                 33301.04 90      033050.40
        SIC,SEN           -FAILED TO LOAD BIT 51       1310.00 80      033051.00
        BZXE,SERS         -FROM INDEX STORAGE          1304.32 C0      033051.40
        LR,$X0,$R                                        11.00 70      033052.00
        SR,$X0,130ST                                 33301.01 70      033052.40
        KV,$X2,130ST                                 33301.04 90      033053.00
        SIC,SEN           -FAILED TO LOAD BIT 51       1310.00 80      033053.40
        BZXE,SERS         -FROM INTERNAL REG           1304.32 C0      033054.00

                                -TEST BIT 50

13014   LX,$X0,BIT50      -OPERAND USED IN LR        33413.00 10      033054.40
        SR,$X0,$X1        -PLACE IN INDEX STORAGE        21.01 70      033055.00
        SR,$X0,$R         -PLACE IN INTERNAL REG         11.01 70      033055.40
        SR,$X0,$X2        -SET UP X2 FOR KV              22.01 70      033056.00
        LR,$X0,BIT4                                  33335.00 70      033056.40
        SR,$X0,130ST                                 33301.01 70      033057.00
        KV,$X2,130ST                                 33301.04 90      033057.40
        SIC,SEN           -FAILED TO LOAD BIT 50       1310.00 80      033060.00
        BZXE,SERS         -FROM EXT MEM                1304.32 C0      033060.40
        LR,$X0,$X1                                       21.00 70      033061.00
        SR,$X0,130ST                                 33301.01 70      033061.40
        KV,$X2,130ST                                 33301.04 90      033062.00
        SIC,SEN           -FAILED TO LOAD BIT 50       1310.00 80      033062.40
        BZXE,SERS         -FROM INDEX STORAGE          1304.32 C0      033063.00
        LR,$X0,$R                                        11.00 70      033063.40
        SR,$X0,130ST                                 33301.01 70      033064.00
        KV,$X2,130ST                                 33301.04 90      033064.40
        SIC,SEN           -FAILED TO LOAD BIT 50       1310.00 80      033065.00
        BZXE,SERS         -FROM INTERNAL REG           1304.32 C0      033065.40
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                              -TEST BIT 49

        13015   LX,$X0,BIT49      -OPERAND USED IN LR           33412.00 10        033066.00
                SR,$X0,$X1        -PLACE IN INDEX STORAGE          21.01 70        033066.40
                SR,$X0,$R         -PLACE IN INTERNAL REG           11.01 70        033067.00
                SR,$X0,$X2        -SET UP X2 FOR KV                22.01 70        033067.40
                LR,$X0,BIT3                                    33334.00 70        033070.00
                SR,$X0,I30ST                                   33301.01 70        033070.40
                KV,$X2,I30ST                                   33301.04 90        033071.00
                SIC,SEN           -FAILED TO LOAD BIT 49         1310.00 80        033071.40
                BZXE,SERS         -FROM EXT MEM                  1304.32 C0        033072.00
                LR,$X0,$X1                                        21.00 70        033072.40
                SR,$X0,I30ST                                   33301.01 70        033073.00
                KV,$X2,I30ST                                   33301.04 90        033073.40
                SIC,SEN           -FAILED TO LOAD BIT 49         1310.00 80        033074.00
                BZXE,SERS         -FROM INDEX STORAGE            1304.32 C0        033074.40
                LR,$X0,$R                                         11.00 70        033075.00
                SR,$X0,I30ST                                   33301.01 70        033075.40
                KV,$X2,I30ST                                   33301.04 90        033076.00
                SIC,SEN           -FAILED TO LOAD BIT 49         1310.00 80        033076.40
                BZXE,SERS         -FROM INTERNAL REG            1304.32 C0        033077.00
                B,$+1.0                                        33100.50 00        033077.40
                BD,I3013                                       33042.44 00        033100.00
                SIC,SEN0+0.32                                   1311.40 80        033100.40
                B,SSW                                           1301.10 00        033101.00
                BD,$+.32                                       33102.04 00        033101.40

                LX,$X13,IC230     -UPDATE CONTINUITY CHECK.     33277.32 10        033102.00
                V+,$X13,BIT4                                   33335.32 B0        033102.40
                SX,$X13,IC230                                  33277.33 10        033103.00


                              -TEST BIT 48

        13016   LX,$X0,BIT48      -OPERAND USED IN LR           33411.00 10        033103.40
                BD,$+.32                                       33104.44 00        033104.00
                SR,$X0,$X1        -PLACE IN INDEX STORAGE          21.01 70        033104.40
                SR,$X0,$R         -PLACE IN INTERNAL REG           11.01 70        033105.00
                SR,$X0,$X2        -SET UP X2 FOR KV                22.01 70        033105.40
                LR,$X0,BIT2                                    33333.00 70        033106.00
                SR,$X0,I30ST                                   33301.01 70        033106.40
                KV,$X2,I30ST                                   33301.04 90        033107.00
                SIC,SEN           -FAILED TO LOAD BIT 48         1310.00 80        033107.40
                BZXE,SERS         -FROM EXT MEM                  1304.32 C0        033110.00
                LR,$X0,$X1                                        21.00 70        033110.40
                SR,$X0,I30ST                                   33301.01 70        033111.00
                KV,$X2,I30ST                                   33301.04 90        033111.40
                SIC,SEN           -FAILED TO LOAD BIT 48         1310.00 80        033112.00
                BZXE,SERS         -FROM INDEX STORAGE            1304.32 C0        033112.40
                LR,$X0,$R                                         11.00 70        033113.00
                SR,$X0,I30ST                                   33301.01 70        033113.40
                KV,$X2,I30ST                                   33301.04 90        033114.00
                SIC,SEN           -FAILED TO LOAD BIT 48         1310.00 80        033114.40
                BZXE,SERS         -FROM INTERNAL REG            1304.32 C0        033115.00
```

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                          -TEST BIT 47                                        -

      13017   LX,$X0,BIT47        -OPERAND USED IN LR           33410.00 10        033115.40
              SR,$X0,$X1          -PLACE IN INDEX STORAGE          21.01 70        033116.00
              SR,$X0,$R           -PLACE IN INTERNAL REG           11.01 70        033116.40
              SR,$X0,$X2          -SET UP X2 FOR KV                22.01 70        033117.00
              LR,$X0,BIT1                                      33332.00 70        033117.40
              SR,$X0,I30ST                                     33301.01 70        033120.00
              KV,$X2,I30ST                                     33301.04 90        033120.40
              SIC,SEN             -FAILED TO LOAD BIT 47         1310.00 80        033121.00
              BZXE,SERS           -FROM EXT MEM                 1304.32 C0        033121.40
              LR,$X0,$X1                                          21.00 70        033122.00
              SR,$X0,I30ST                                     33301.01 70        033122.40
              KV,$X2,I30ST                                     33301.04 90        033123.00
              SIC,SEN             -FAILED TO LOAD BIT 47         1310.00 80        033123.40
              BZXE,SERS           -FROM INDEX STORAGE           1304.32 C0        033124.00
              LR,$X0,$R                                           11.00 70        033124.40
              SR,$X0,I30ST                                     33301.01 70        033125.00
              KV,$X2,I30ST                                     33301.04 90        033125.40
              SIC,SEN             -FAILED TO LOAD BIT 47         1310.00 80        033126.00
              BZXE,SERS           -FROM INTERNAL REG            1304.32 C0        033126.40

                          -TEST BIT 46                                        -

      13018   LX,$X0,BIT46        -OPERAND USED IN LR     -     33407.00 10        033127.00
              SR,$X0,$X1          -PLACE IN INDEX STORAGE          21.01 70        033127.40
              SR,$X0,$R           -PLACE IN INTERNAL REG           11.01 70        033130.00
              SR,$X0,$X2          -SET UP X2 FOR KV                22.01 70        033130.40
              LR,$X0,BIT0                                      33331.00 70        033131.00
              SR,$X0,I30ST                                     33301.01 70        033131.40
              KV,$X2,I30ST                                     33301.04 90        033132.00
              SIC,SEN             -FAILED TO LOAD BIT 46         1310.00 80        033132.40
              BZXE,SERS           -FROM EXT MEM                 1304.32 C0        033133.00
              LR,$X0,$X1                                          21.00 70        033133.40
              SR,$X0,I30ST                                     33301.01 70        033134.00
              KV,$X2,I30ST                                     33301.04 90        033134.40
              SIC,SEN             -FAILED TO LOAD BIT 46         1310.00 80        033135.00
              BZXE,SERS           -FROM INDEX STORAGE           1304.32 C0        033135.40
              LR,$X0,$R                                           11.00 70        033136.00
              SR,$X0,I30ST                                     33301.01 70        033136.40
              KV,$X2,I30ST                                     33301.04 90        033137.00
              SIC,SEN             -FAILED TO LOAD BIT 46         1310.00 80        033137.40
              BZXE,SERS           -FROM INTERNAL REG            1304.32 C0        033140.00
              B,$+1.0                                         33141.50 00        033140.40
              BD,13016                                        33103.44 00        033141.00
              SIC,SEN0+0.32                                     1311.40 80        033141.40
              B,SSW                                             1301.10 00        033142.00
              BD,$+.32                                        33143.04 00        033142.40
                                                                             -
              LX,$X13,IC230       -UPDATE CONTINUITY CHECK.     33277.32 10        033143.00
              V+,$X13,BIT5                                     33336.32 B0        033143.40
              SX,$X13,IC230                                    33277.33 10        033144.00
```

```
                        -TEST ALL ONES

13019    LX,$X0,100O          -OPERAND USED IN LR           33312.00 10        033144.40
         BD,$+.32                                           33145.44 00        033145.00
         SR,$X0,$X1           -PLACE IN INDEX STORAGE          21.01 70        033145.40
         SR,$X0,$R            -PLACE IN INTERNAL REG           11.01 70        033146.00
         SR,$X0,$X2           -SET UP X2 FOR KV                22.01 70        033146.40
         LR,$X0,100O                                        33312.00 70        033147.00
         SR,$X0,130ST                                       33301.01 70        033147.40
         KV,$X2,130ST                                       33301.04 90        033150.00
         SIC,SEN              -FAILED TO LOAD ALL ONES       1310.00 80        033150.40
         BZXE,SERS            -FROM EXT MEM                  1304.32 C0        033151.00
         LR,$X0,$X1                                            21.00 70        033151.40
         SR,$X0,130ST                                       33301.01 70        033152.00
         KV,$X2,130ST                                       33301.04 90        033152.40
         SIC,SEN              -FAILED TO LOAD ALL ONES       1310.00 80        033153.00
         BZXE,SERS            -FROM INDEX STORAGE            1304.32 C0        033153.40
         LR,$X0,$R                                             11.00 70        033154.00
         SR,$X0,130ST                                       33301.01 70        033154.40
         KV,$X2,130ST                                       33301.04 90        033155.00
         SIC,SEN              -FAILED TO LOAD ALL ONES       1310.00 80        033155.40
         BZXE,SERS            -FROM INTERNAL REG             1304.32 C0        033156.00

                        -TEST ALL ZEROS

13020    LX,$X0,100Z          -OPERAND USED IN LR           33311.00 10        033156.40
         SR,$X0,$X1           -PLACE IN INDEX STORAGE          21.01 70        033157.00
         SR,$X0,$R            -PLACE IN INTERNAL REG           11.01 70        033157.40
         SR,$X0,$X2           -SET UP X2 FOR KV                22.01 70        033160.00
         LR,$X0,100Z                                        33311.00 70        033160.40
         SR,$X0,130ST                                       33301.01 70        033161.00
         KV,$X2,130ST                                       33301.04 90        033161.40
         SIC,SEN              -FAILED TO LOAD ALL ZEROS      1310.00 80        033162.00
         BZXE,SERS            -FROM EXT MEM                  1304.32 C0        033162.40
         LR,$X0,$X1                                            21.00 70        033163.00
         SR,$X0,130ST                                       33301.01 70        033163.40
         KV,$X2,130ST                                       33301.04 90        033164.00
         SIC,SEN              -FAILED TO LOAD ALL ZEROS      1310.00 80        033164.40
         BZXE,SERS            -FROM INDEX STORAGE            1304.32 C0        033165.00
         LR,$X0,$R                                             11.00 70        033165.40
         SR,$X0,130ST                                       33301.01 70        033166.00
         KV,$X2,130ST                                       33301.04 90        033166.40
         SIC,SEN              -FAILED TO LOAD ALL ZEROS      1310.00 80        033167.00
         BZXE,SERS            -FROM INTERNAL REG             1304.32 C0        033167.40
         B,$+1.0                                            33171.10 00        033170.00
         BD,13019                                           33144.44 00        033170.40
         SIC,SEN0+0.32                                       1311.40 80        033171.00
         B,SSW                                               1301.10 00        033171.40
         BD,$+.32                                           33172.44 00        033172.00

         LX,$X13,IC230        -UPDATE CONTINUITY CHECK.      33277.32 10        033172.40
         V+,$X13,BIT6                                       33337.32 B0        033173.00
         SX,$X13,IC230                                      33277.33 10        033173.40
```

```
13021   LVI,$X2,%8¤000001.   -TEST BIT 63              1.05 01        033174.00
        BD,$+.32                                   33175.04 00        033174.40
        LRI,$X0,%8¤000001                              1.01 03        033175.00
        SR,$X0,130ST                               33301.01 70        033175.40
        KV,$X2,130ST                               33301.04 90        033176.00
        SIC,SEN              -FAILED TO LOAD BIT 63    1310.00 80      033176.40
        BZXE,SERS                                   1304.32 C0        033177.00
                                                  -
        LVI,$X2,%8¤000002.   -TEST BIT 62              2.05 01        033177.40
        LRI,$X0,%8¤000002                              2.01 03        033200.00
        SR,$X0,130ST                               33301.01 70        033200.40
        KV,$X2,130ST                               33301.04 90        033201.00
        SIC,SEN                                        1310.00 80      033201.40
        BZXE,SERS            -FAILED TO LOAD BIT 62    1304.32 C0      033202.00
                                                  -
        LVI,$X2,%8¤000004.   -TEST BIT 61              4.05 01        033202.40
        LRI,$X0,%8¤000004                              4.01 03        033203.00
        SR,$X0,130ST                               33301.01 70        033203.40
        KV,$X2,130ST                               33301.04 90        033204.00
        SIC,SEN                                        1310.00 80      033204.40
        BZXE,SERS            -FAILED TO LOAD BIT 61    1304.32 C0      033205.00
                                                  -
13022   LVI,$X2,%8¤000010.   -TEST BIT 60             10.05 01        033205.40
        LRI,$X0,%8¤000010                             10.01 03        033206.00
        SR,$X0,130ST                               33301.01 70        033206.40
        KV,$X2,130ST                               33301.04 90        033207.00
        SIC,SEN             -FAILED TO LOAD BIT 60    1310.00 80       033207.40
        BZXE,SERS                                   1304.32 C0        033210.00
                                                  -
        LVI,$X2,%8¤000020.   -TEST BIT 59             20.05 01        033210.40
        LRI,$X0,%8¤000020                             20.01 03        033211.00
        SR,$X0,130ST                               33301.01 70        033211.40
        KV,$X2,130ST                               33301.04 90        033212.00
        SIC,SEN                                        1310.00 80      033212.40
        BZXE,SERS            -FAILED TO LOAD BIT 59    1304.32 C0      033213.00
                                                  -
        LVI,$X2,%8¤000040.   -TEST BIT 58             40.05 01        033213.40
        LRI,$X0,%8¤000040                             40.01 03        033214.00
        SR,$X0,130ST                               33301.01 70        033214.40
        KV,$X2,130ST                               33301.04 90        033215.00
        SIC,SEN                                        1310.00 80      033215.40
        BZXE,SERS            -FAILED TO LOAD BIT 58    1304.32 C0      033216.00
                                                  -
13023   LVI,$X2,%8¤000100.   -TEST BIT 57            100.05 01        033216.40
        LRI,$X0,%8¤000100                            100.01 03        033217.00
        SR,$X0,130ST                               33301.01 70        033217.40
        KV,$X2,130ST                               33301.04 90        033220.00
        SIC,SEN             -FAILED TO LOAD BIT 57    1310.00 80       033220.40
        BZXE,SERS                                   1304.32 C0        033221.00
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        LVI,$X2,%8¤000200.   -TEST BIT 56              200.05 01           033221.40
        LRI,$X0,%8¤000200                              200.01 03           033222.00
        SR,$X0,130ST                               33301.01 70            033222.40
        KV,$X2,130ST                               33301.04 90            033223.00
        SIC,SEN                                      1310.00 80            033223.40
        BZXE,SERS            -FAILED TO LOAD BIT 56   1304.32 CO            033224.00

        LVI,$X2,%8¤000400.   -TEST BIT 55              400.05 01           033224.40
        LRI,$X0,%8¤000400                              400.01 03           033225.00
        SR,$X0,130ST                               33301.01 70            033225.40
        KV,$X2,130ST                               33301.04 90            033226.00
        SIC,SEN                                      1310.00 80            033226.40
        BZXE,SERS            -FAILED TO LOAD BIT 55   1304.32 CO            033227.00

13024   LVI,$X2,%8¤001000.   -TEST BIT 54             1000.05 01           033227.40
        LRI,$X0,%8¤001000                             1000.01 03           033230.00
        SR,$X0,130ST                               33301.01 70            033230.40
        KV,$X2,130ST                               33301.04 90            033231.00
        SIC,SEN             -FAILED TO LOAD BIT 54   1310.00 80            033231.40
        BZXE,SERS                                     1304.32 CO            033232.00

        LVI,$X2,%8¤002000.   -TEST BIT 53             2000.05 01           033232.40
        LRI,$X0,%8¤002000                             2000.01 03           033233.00
        SR,$X0,130ST                               33301.01 70            033233.40
        KV,$X2,130ST                               33301.04 90            033234.00
        SIC,SEN                                      1310.00 80            033234.40
        BZXE,SERS            -FAILED TO LOAD BIT 53   1304.32 CO            033235.00

        LVI,$X2,%8¤004000.   -TEST BIT 52             4000.05 01           033235.40
        LRI,$X0,%8¤004000                             4000.01 03           033236.00
        SR,$X0,130ST                               33301.01 70            033236.40
        KV,$X2,130ST                               33301.04 90            033237.00
        SIC,SEN                                      1310.00 80            033237.40
        BZXE,SERS            -FAILED TO LOAD BIT 52   1304.32 CO            033240.00

13025   LVI,$X2,%8¤010000.   -TEST BIT 51            10000.05 01           033240.40
        LRI,$X0,%8¤010000                            10000.01 03           033241.00
        SR,$X0,130ST                               33301.01 70            033241.40
        KV,$X2,130ST                               33301.04 90            033242.00
        SIC,SEN             -FAILED TO LOAD BIT 51   1310.00 80            033242.40
        BZXE,SERS                                     1304.32 CO            033243.00

        LVI,$X2,%8¤020000.   -TEST BIT 50            20000.05 01           033243.40
        LRI,$X0,%8¤020000                            20000.01 03           033244.00
        SR,$X0,130ST                               33301.01 70            033244.40
        KV,$X2,130ST                               33301.04 90            033245.00
        SIC,SEN                                      1310.00 80            033245.40
        BZXE,SERS            -FAILED TO LOAD BIT 50   1304.32 CO            033246.00

        LVI,$X2,%8¤040000.   -TEST BIT 49            40000.05 01           033246.40
        LRI,$X0,%8¤040000                            40000.01 03           033247.00
        SR,$X0,130ST                               33301.01 70            033247.40
        KV,$X2,130ST                               33301.04 90            033250.00
        SIC,SEN                                      1310.00 80            033250.40
        BZXE,SERS            -FAILED TO LOAD BIT 49   1304.32 CO            033251.00
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13026   LVI,$X2,%8□100000.  -TEST BIT 48              100000.05 01                      033251.40
        LRI,$X0,%8□100000                            100000.01 03                      033252.00
        SR,$X0,130ST                                 33301.01 70                       033252.40
        KV,$X2,130ST                                 33301.04 90                       033253.00
        SIC,SEN             -FAILED TO LOAD BIT 48    1310.00 80                        033253.40
        BZXE,SERS                                     1304.32 CO                        033254.00

        LVI,$X2,%8□200000.  -TEST BIT 47             200000.05 01                       033254.40
        LRI,$X0,%8□200000                            200000.01 03                       033255.00
        SR,$X0,130ST                                 33301.01 70                        033255.40
        KV,$X2,130ST                                 33301.04 90                        033256.00
        SIC,SEN                                       1310.00 80                        033256.40
        BZXE,SERS           -FAILED TO LOAD BIT 47    1304.32 CO                        033257.00

        LVI,$X2,%8□400000.  -TEST BIT 46             400000.05 01                       033257.40
        LRI,$X0,%8□400000                            400000.01 03                       033260.00
        SR,$X0,130ST                                 33301.01 70                        033260.40
        KV,$X2,130ST                                 33301.04 90                        033261.00
        SIC,SEN                                       1310.00 80                        033261.40
        BZXE,SERS           -FAILED TO LOAD BIT 46    1304.32 CO                        033262.00

13027   LVI,$X2,%8□777777.  -TEST ALL ONES           777777.05 01                       033262.40
        LRI,$X0,%8□777777                            777777.01 03                       033263.00

        SR,$X0,130ST                                 33301.01 70                        033263.40
        KV,$X2,130ST                                 33301.04 90                        033264.00
        SIC,SEN             -FAILED TO LOAD ALL ONES  1310.00 80                        033264.40
        BZXE,SERS                                     1304.32 CO                        033265.00

        LVI,$X2,%8□000000.  -TEST ALL ZEROS               0.05 01                       033265.40
        LRI,$X0,%8□000000                                 0.01 03                       033266.00
        SR,$X0,130ST                                 33301.01 70                        033266.40
        KV,$X2,130ST                                 33301.04 90                        033267.00
        SIC,SEN                                       1310.00 80                        033267.40
        BZXE,SERS           -FAILED TO LOAD ALL ZEROS  1304.32 CO                       033270.00

        B,$+1.0                                      33271.50 00                        033270.40
        BD,13021                                     33174.04 00                        033271.00
        SIC,SEN0+0.32                                 1311.40 80                        033271.40
        B,SSW                                         1301.10 00                        033272.00
        BD,$+.32                                     33273.04 00                        033272.40

        LX,$X13,IC230       -UPDATE CONTINUITY CHECK. 33277.32 10                       033273.00
        V+,$X13,BIT7                                 33340.32 BO                        033273.40
        SX,$X13,IC230                                33277.33 10                        033274.00

        LX,$X13,IC230       -UPDATE CONTINUITY CHECK. 33277.32 10                       033274.40
        KV,$X13,ICK230                               33300.32 90                        033275.00
        SIC,SEN                                       1310.00 80                        033275.40
        BZXE,SERS           -CONTINUITY ERROR.        1304.32 CO                        033276.00
        B,1301D+1.00                                 33303.10 00                        033276.40

IC230   XW,0,0,0            -CONTINUITY REG 1230.         0.00 00 000000.00 00          033277.00
ICK230  XW,%8□776000.00,0,0                         776000.00 00 000000.00 00          033300.00

130ST   DR%BU,64,8□,%1□                                   1.00                         033301.00
1301D   %IQSZ□DD%BU,64,8□,1230        Z                                                033302.00
        LX,$X1,%8□103.0                                 103.02 10                       033303.00
        KV,$X1,100LC                                 33307.42 90                        033303.40
        BZXE,%8□20000.0                -LOOP         20000.32 CO                        033304.00
        KC,$X1,100LC                                 33307.43 90                        033304.40
        BZXE,%8□20000.0                -LOOP         20000.32 CO                        033305.00
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                        SR,$X1,17.0                                          21.03 70                033305.40
                        KV,$X1,100LC+.32                                    33310.02 90              033306.00
                        BZXE,%8□20000.0              -LOOP                   20000.32 CO             033306.40
                        B,%8□34000.0                 -CONTINUE              34000.10 00              033307.00
                                                -COMMON CONSTANTS FOR FETCH ONLY
                        -
            SENO        SYN,SENO                                             1311.00+    +00000000
            100LC       %8□DD%BU,64,8□,0 000 011 770 025 700 000 000        00000011770025700000000  033307.40
            100Z        XW,0,0,0,0                   -ZERO INDX WD.          0.00 00 000000.00 00     033311.00
            1000        %8□DD%BU,64,8□,17777777777777777777777-INDX WD. OF ONES.  17777777777777777777777  033312.00
            100VO       XW,%8□-777777.77,0,0                           777777.77 80 000000.00 00      033313.00
            100CO       XW,0,%8□777777,0                                    0.00 OF 777760.00 00     033314.00
                        -
                        DD%BU,64,8□,0,0,0                                    00000000000000000000000  033315.00
                                                                            00000000000000000000000  033316.00
                                                                            00000000000000000000000  033317.00
                        DD%BU,64,8□,0,0,0                                    00000000000000000000000  033320.00
                                                                            00000000000000000000C000  033321.00
                                                                            00000000000000000000C000  033322.00
                        DD%BU,64,8□,0,0,0                                    00000000000000000000000  033323.00
                                                                            00000000000000000000000  033324.00
                                                                            00000000000000000000000  033325.00
                        DD%BU,64,8□,0,0,0                                    00000000000000000000000  033326.00
                                                                            00000000000000000000000  033327.00
                                                                            00000000000000000000000  033330.00
                        -
            BITO        XW,%8□400000.00,0,0                            400000.00 00 000000.00 00      033331.00
            BIT1        XW,%8□200000.00,0,0                            200000.00 00 000000.00 00      033332.00
            BIT2        XW,%8□100000.00,0,0                            100000.00 00 000000.00 00      033333.00
            BIT3        XW,%8□40000.00,0,0                              40000.00 00 000000.00 00      033334.00
            BIT4        XW,%8□20000.00,0,0                              20000.00 00 000000.00 00      033335.00
            BIT5        XW,%8□10000.00,0,0                              10000.00 00 000000.00 00      033336.00
            BIT6        XW,%8□4000.00,0,0                                4000.00 00 000000.00 00      033337.00
            BIT7        XW,%8□2000.00,0,0                                2000.00 00 000000.00 00      033340.00
            BIT8        XW,%8□1000.00,0,0                                1000.00 00 000000.00 00      033341.00
            BIT9        XW,%8□400.00,0,0                                  400.00 00 000000.00 00      033342.00
            BIT10       XW,%8□200.00,0,0                                  200.00 00 000000.00 00      033343.00
            BIT11       XW,%8□100.00,0,0                                  100.00 00 000000.00 00      033344.00
            BIT12       XW,%8□40.00,0,0                                    40.00 00 000000.00 00      033345.00
            BIT13       XW,%8□20.00,0,0                                    20.00 00 000000.00 00      033346.00
            BIT14       XW,%8□10.00,0,0                                    10.00 00 000000.00 00      033347.00
            BIT15       XW,%8□4.00,0,0                                      4.00 00 000000.00 00      033350.00
            BIT16       XW,%8□2.00,0,0                                      2.00 00 000000.00 00      033351.00
            BIT17       XW,%8□1.00,0,0                                      1.00 00 000000.00 00      033352.00
            BIT18       XW,%8□.40,0,0                                       0.40 00 000000.00 00      033353.00
            BIT19       XW,%8□.20,0,0                                       0.20 00 000000.00 00      033354.00
            BIT20       XW,%8□.10,0,0                                       0.10 00 000000.00 00      033355.00
            BIT21       XW,%8□0.04,0,0                                      0.04 00 000000.00 00      033356.00
            BIT22       XW,%8□0.02,0,0                                      0.02 00 000000.0C 00      033357.00
            BIT23       XW,%8□0.01,0,0                                      0.01 00 000000.00 00      033360.00
            BIT24       %8□DD%BU□,0 000 000 010 000 000 000 000       000000001000000C000000  033361.00
            BIT25       XW,0,0,0,4                                          0.00 40 000000.00 00      033362.00
            BIT26       XW,0,0,0,2                                          0.00 20 000000.00 00      033363.00
            BIT27       XW,0,0,0,1                                          0.00 10 000000.00 00      033364.00
            BIT28       XW,0,131072,0                                       0.00 08 000000.00 00      033365.00
            BIT29       XW,0,65536,0                                        0.00 04 000000.00 00      033366.00
            BIT30       XW,0,32768,0                                        0.00 02 000000.00 00      033367.00
            BIT31       XW,0,16384,0                                        0.00 01 000000.00 00      033370.00
            BIT32       XW,0,8192,0                                         0.00 00 400000.00 00      033371.00
            BIT33       XW,0,4096,0                                         0.00 00 200000.00 00      033372.00
            BIT34       XW,0,2048,0                                         0.00 00 100000.00 00      033373.00
            BIT35       XW,0,1024,0                                         0.00 00 040000.00 00      033374.00
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BIT36    XW,0,512,0          0.00 00 020000.00 00     033375.00
BIT37    XW,0,256,0          0.00 00 010000.00 00     033376.00
BIT38    XW,0,128,0          0.00 00 004000.00 00     033377.00
BIT39    XW,0,64,0           0.00 00 002000.00 00     033400.00
BIT40    XW,0,32,0           0.00 00 001000.00 00     033401.00
BIT41    XW,0,16,0           0.00 00 000400.00 00     033402.00
BIT42    XW,0,8,0            0.00 00 000200.00 00     033403.00
BIT43    XW,0,4,0            0.00 00 000100.00 00     033404.00
BIT44    XW,0,2,0            0.00 00 000040.00 00     033405.00
BIT45    XW,0,1,0            0.00 00 000020.00 00     033406.00
BIT46    XW,0,0,131072       0.00 00 000010.00 00     033407.00
BIT47    XW,0,0,65536        0.00 00 000004.00 00     033410.00
BIT48    XW,0,0,32768        0.00 00 000002.00 00     033411.00
BIT49    XW,0,0,16384        0.00 00 000001.00 0C     033412.00
BIT50    XW,0,0,8192         0.00 00 000000.40 00     033413.00
BIT51    XW,0,0,4096         0.00 00 000000.20 00     033414.00
BIT52    XW,0,0,2048         0.00 00 000000.10 00     033415.00
BIT53    XW,0,0,1024         0.00 00 000000.04 00     033416.00
BIT54    XW,0,0,512          0.00 00 000000.02 00     033417.00
BIT55    XW,0,0,256          0.00 00 000000.01 00     033420.00
BIT56    XW,0,0,128          0.00 00 000000.00 80     033421.00
BIT57    XW,0,0,64           0.00 00 000000.00 40     033422.00
BIT58    XW,0,0,32           0.00 00 000000.00 20     033423.00
BIT59    XW,0,0,16           0.00 00 000000.00 10     033424.00
BIT60    XW,0,0,8            0.00 00 000000.00 08     033425.00
BIT61    XW,0,0,4            0.00 00 000000.00 04     033426.00
BIT62    XW,0,0,2            0.00 00 000000.00 02     033427.00
BIT63    XW,0,0,1            0.00 00 000000.00 01     033430.00
```

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SSW      SYN,%8□1301.0                    .*           1301.00+    +00000000
ERS      SYN,%8□1302.0                                 1302.00+    +00000000
SERS     SYN,%8□1304.0                                 1304.00+    +00000000
RET      SYN,%8□1306.40                                1306.40+    +00000000
RET1     SYN,%8□1307.0                                 1307.00+    +00000000
RET2     SYN,%8□1307.40                                1307.40+    +00000000
SEN      SYN,%8□1310.0                                 1310.00+    +00000000
SEN0     SYN,%8□1311.0                                 1311.00+    +00000000
DPET13   SYN,%8□1437.0                                 1437.00+    +00000000
INT      SYN,%8□1353.0                                 1353.00+    +00000000
IDF1     SYN,%8□1443.0                                 1443.00+    +00000000
IDF2     SYN,%8□1444.40                                1444.40+    +00000000
         END,%8□20000.0                                20000.00              033431.00
```